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ANNUAL REPORT

1959

Chicago Natural History Museum

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JOHN P. WILSON
1877—1959

Member of the Board of Trustees since 1932
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Report of the Director

to the

Board of Trustees

for the year 1959



CHICAGO NATURAL HISTORY MUSEUM

1960

PRINTED IN THE UNITED STATES OF AMERICA
BY CHICAGO NATURAL HISTORY MUSEUM PRESS

507
F45
1959

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NORTH ENTRANCE
OF
CHICAGO NATURAL HISTORY MUSEUM
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CHICAGO NATURAL
HISTORY MUSEUM
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KENNETH STARR, Ph.D., Curator, Asiatic Archaeology and Ethnology
ROLAND W. FORCE, Ph.D., Curator, Oceanic Archaeology and Ethnology
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HOSHIE TCHEN, Ph.D., Consultant, East Asian Collection
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ALFRED LEE ROWELL, Dioramist
GUSTAF DALSTROM, Artist
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WALTER C. REESE, Preparator
VIRGINIA B. STROSS, A.B., Departmental Secretary

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FAY-COOPER COLE, Ph.D., Sc.D., LL.D., Research Associate, Malaysian Ethnology
A. L. KROEBER, Ph.D., Research Associate, American Archaeology
J. ERIC THOMPSON, Dipl.Anth.Camb., Research Associate, Central American Archaeology

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J. S. DASTON, Sc.D., Assistant, Botany
ROBERT J. REICH, Custodian, Herbarium
EMIL SELLA, Curator of Exhibits

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MAIDI WIEBE, Artist

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VIOLET WHITFIELD, B.A., Associate, Fossil Plants

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Classification and Cataloguing

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CONSTANTIN GLOBALA, Dipl.Eng.

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BRILLIANT
NEW
FLOODLIGHTING
OF
WHITE-MARBLE
MUSEUM BUILDING

ON NEXT PAGE



Annual Report

of the Director

To the Trustees:

I have the honor to present a report of the operation of the Museum for the year ending December 31, 1959.

This was probably the year of greatest impact upon the people of Chicago by the Museum since its early beginnings. Chicagoans were made more aware of what the Museum is, what it does, and what it has to offer the public than ever before because there were more special events, more special exhibits, and more innovations than in previous years, and the people of Chicago responded to these attractions.

The silhouette illumination of the exterior of this white-marble building every night since June 16 along with other public buildings in the Chicago park system has drawn particular and favorable attention (see facing page and page 107). During the summer the Museum remained open to visitors a number of evenings beyond the normal hours, particularly on the evenings when public concerts were held in the Grant Park bandshell (see pages 25 and 98). Toward the end of the year, evening chamber-music concerts once a month were inaugurated in the Museum's James Simpson Theatre (see page 23).

During the period of the Pan American Games and the Festival of the Americas, the Museum presented a special exhibit of American Indian art in which the entire western hemisphere from Alaska to Patagonia was represented (see page 25). Although the basis of this exhibit consisted of specimens in the Museum's collection, pieces of

special interest from other institutions also were displayed. In November and December the centennial of the publication of Charles Darwin's *The Origin of Species* was celebrated with a special exhibit of Darwiniana in Stanley Field Hall (see page 25). In addition, many new permanent exhibits were added in the Museum's four departments—Anthropology, Botany, Geology, and Zoology (see pages 51, 57, 65, and 76).

The research collections of the Museum were also increased notably by the acquisition of the Fred Button Collection of mollusks, the Dr. E. H. Taylor Collection of amphibians and reptiles, and a choice collection of marine shells from Dr. Jeanne S. Schwengel. Generous and valuable gifts from many other friends of the Museum are listed at the end of this Report among the accessions that were received in our scientific departments (see also pages 47, 54, 64, and 72). Of unusual interest is a Maori *tiki* presented by Captain and Mrs. A. W. F. Fuller (see page 43). The Museum is deeply indebted to its friends whose generosity has added immeasurably to its collections and to its funds.

As usual, the Museum carried on its full program of scientific research and field work in various parts of the world. Expeditions worked in the Belgian Congo, Panama, Nepal, the Philippines, Malaya, Egypt, and Colombia and in the waters of the West Indies as well as in the United States and Canada (see page 36). It is significant that we now list most of these trips on our records as "field trips" rather than as "expeditions." "Expedition" carries with it the idea of long journeys and of finding a way over unknown terrain, a concept now almost obsolete. On our field trips now we can be rushed to the other side of the globe by airplane, we can plan our investigations with the aid of good maps, and often we can collaborate with resident naturalists. Though exploration in a geographical sense is a thing of the past, we are still exploring on the frontiers of knowledge, seeking new information about life and its manifestations. Our unique function as a museum dictates that much of our research must start with collecting specimens.

Soundtrek, a system for radio-guided tours of exhibits, has been installed in six exhibition halls. Similar systems have been in use at the American Museum of Natural History (New York) and the National Gallery of Art (Washington, D.C.) long enough to establish the utility of the device as a means of making museum visits more instructive and interesting for the individual. After several months of trial and experimentation to overcome technical difficulties, an operational multichannel system was attained at the end of the year. Now it is possible for Museum visitors to rent a small portable radio

receiver and, while viewing the exhibits, hear an interesting and informative recorded commentary (lasting about thirty minutes) by the curator in charge of the particular hall. Shorter talks of about ten minutes, which may be selected instead by visitors who wish a quick survey, were prepared by members of the Raymond Foundation staff because they are best acquainted with the interests of the casual visitor.

Eighteen or twenty halls will eventually have the Soundtrek installation. The first to be equipped are the halls of American Mammals (16), Reptiles, Amphibians, and Insects (18), Habitat Groups of Birds (20), Prairie and Woodland Indians (5), Ancient Egypt (J), and Stone Age Man (C). The multichannel radio system provides a flexibility that will permit rapid change-over to foreign language and other special kinds of commentary on Museum exhibits when an occasion justifies it.

SPECIAL EVENTS

Favorable notice came from the opening ceremony of the Festival of the Americas, a gala dinner and reception at the Museum at which some four hundred civic, art, and business leaders of Chicago and the consular corps of Pan American countries and of nations in Europe, Asia, and Africa were guests of the Women's Committee of the Pan American Games. A message from President Dwight D. Eisenhower was read by Mayor Richard J. Daley, who, with Mrs. Daley, headed the reception line in Stanley Field Hall to greet the many distinguished visitors. Simultaneously with this event the Museum was host to its Members at a preview of the special exhibit "Indian Art of the Americas" (see pages 21, 25, 51, and 95).

A highlight of the evening was a chamber-music concert by members of the Grant Park Symphony Orchestra presented in James Simpson Theatre through the generosity of Mrs. J. Dennis Freund, of the Women's Committee. This brought commendation from Chicago's music critics, who lauded the concert as the finest musical event of the Festival and were enthusiastic over the Theatre as "the city's finest auditorium for chamber music." The enthusiasm thus engendered led to another series of events: Mrs. Freund organized the Free Concerts Foundation, Inc., and formed the Festival String Quartet, headed by Sidney Harth, concertmaster of the Chicago Symphony Orchestra, for a season of concerts that opened at the Museum on December 9 and will continue with a concert each month through April, 1960 (see page 21).



MASK

NOOTKA
VANCOUVER
ISLAND

HEIGHT
32 INCHES

DISPLAYED
IN
SPECIAL
EXHIBIT

INDIAN ART
OF THE
AMERICAS

SPECIAL EXHIBITS

Of the nine special exhibits displayed during the year several were of unusual interest and beauty. One of these was the first public showing of objects from the famed Fuller Collection of ethnological material from the South Seas under the title "Panorama of the Pacific" (see page 51). The exhibit was planned especially for Members' Night, May 8 (see page 34), so that Members would be informed about one of the Museum's greatest acquisitions. After its initial display in Stanley Field Hall until the middle of July, the exhibit was moved to Hall 18 until the middle of October.

Similarly the exhibit "Indian Art of the Americas," designed to celebrate the Festival of the Americas in connection with the Third Pan American Games, far surpassed in excellence and beauty what one would expect to find in a temporary display (see pages 21, 23, and 51). It brought together for the first time outstanding examples of the major Indian art styles of the past 2,500 years, and popular interest inspired its showing until October 28 (from July 30).

"The Music Makers," an exhibit of exotic musical instruments prepared as an attraction for July and August (when the Museum was open on evenings of Grant Park concerts, see page 21), seems to have filled a long-felt and continuing need and so will be kept on view as long as suitable space remains to display it. "Peoples and Places in India," an exhibit of photographs and miniature sculptures collected by John Moyer while on leave from the Museum to serve as Consul of the United States at Calcutta, was placed on display on October 1 to add interest to the fall illustrated-lecture series, especially the program on India that was presented by Mr. Moyer.

The Museum observed the centennial of the publication of Charles Darwin's *On the Origin of Species by Means of Natural Selection* by a special exhibit in Stanley Field Hall explaining the meaning of natural selection and some of the evidence for it (see page 76). The concept of evolution is dominant in the thinking of present-day naturalists; hence the utility of the exhibit outlives the occasion that brought it to being. The exhibit is being continued through the early spring months of 1960 especially for use by the Raymond Foundation staff and those young people who are candidates for the Museum Discoverers' Club (see page 31). An exhibit on the genetics of of the domestic fowl was lent by the De Kalb (Illinois) Agricultural Association and exhibited in Hall 18 during the Darwin exhibit.

The annual exhibits of nature photography, of amateur hand-crafted gems and jewelry, and of drawings by students in the School of the Art Institute of Chicago added variety and interest.

STAFF OF THE MUSEUM

At his own request Dr. Fritz Haas, Curator of Lower Invertebrates, was made Curator Emeritus of Lower Invertebrates. Dr. Alan Solem, Assistant Curator of Lower Invertebrates, was advanced to Curator, and Melvin A. Traylor, Jr., Assistant Curator of Birds, was advanced to Associate Curator.

Appointments during the year were: Miss Marian Christensen, Secretary, Library; Miss Marilyn Jindrich, Assistant, Public Relations; Dr. Karl Koopman, Assistant Curator of Mammals; Dean Randall, Artist, Department of Botany; Robert J. Reich, Custodian of the Herbarium; Ernest J. Roscoe, Assistant, Division of Lower Invertebrates; and Dr. C. Earle Smith, Jr., Associate Curator of Vascular Plants.

Resignations during the year were: Alfredo Evangelista, Thomas J. Dee Fellow in Anthropology; Mrs. Patricia McAfee Huffman, Associate, Public Relations; and André Nitecki, Cataloguer in the Library. James Barry, veteran Sergeant of the Guard, retired after seventeen years of service.

I record with deep regret the death on January 16 of Frederick Burr, Division of Printing; the death on April 12 of John Roberts, Division of Maintenance; and the death on December 16 of Miss Rose J. Watson, a pensioner.

VOLUNTEER WORKERS

The Museum thanks its volunteer workers for their help during the year. Some of them, designated as Research Associates and Associates, are included in the List of Staff at the beginning of this Report. Other volunteers are: Miss Lynn Beach, Thomas Brodene, Miss Barbara Bruckner, Walther H. Buchen, C. Boyd Bumzahem, Teddy Czyzewicz, Miss Margot Donald, Michael Duever, Robert Elliott, Miss Patricia R. Falkenburg, John Gedgaudas, Mrs. Dorothy Gould, Mrs. Samuel H. Grove, Jr., Mrs. Esther Hermitte, Harold Hinds, John Kresinske, Mrs. Peggy Litten, Fred Matejcek, Michael Moore, Mrs. Glen Nellis, Thomas Olechowski, Thomas O'Neill, Philip Porzel, George Semmelman, Miss Margaret Shurrager, Douglas E. Tibbitts, John Veriga, and Mrs. Adele Woods. Boris Ivanov, of the Library staff, who has been working on a reduced-hour basis, became so deeply interested in the work he was doing that he also worked many extra days as a volunteer. Our volunteers assisted in various divisions of the Museum's scientific departments.

TRUSTEES AND OFFICERS

It will be no surprise to Members of the Museum that Stanley Field was elected at the annual meeting of the Board of Trustees to serve as President of the Museum for the fifty-first consecutive year. In recognition of his years of service to civic institutions of Chicago, particularly to this Museum, Northwestern University at its commencement ceremonies held on June 15 conferred the honorary degree of Doctor of Laws on Mr. Field. This well-merited honor for his service to the people of Chicago in directing an outstanding educational and research institution was widely acclaimed.

All other officers of the Museum were also re-elected: Vice-Presidents Hughston M. McBain, Walther Buchen, and Joseph N. Field and Treasurer Solomon A. Smith, Secretary Clifford C. Gregg, and Assistant Secretary John R. Millar.

Members of the Board of Trustees were saddened by the death on July 26 of John P. Wilson, a Trustee of the Museum since 1932. His fellow Trustees adopted the following resolution in his memory:

JOHN P. WILSON

1877-1959

"News of the death of John P. Wilson on July 26, 1959, was received with profound sorrow and a deep sense of personal loss by all members of the Board of Trustees of Chicago Natural History Museum. Mr. Wilson joined the Board of Trustees in 1932 and was elected the next year to the Finance Committee and the Executive Committee. His wise counsel, deep interest in the work of the Museum and in the welfare of its employees, and his sound business judgment aided materially in the progress of this institution.

"Prominent in the affairs of the City of Chicago, he was senior partner of Wilson & McIlvaine, attorneys, and served on the board of directors of many widely known corporations, including Marshall Field and Company, the International Harvester Company, the First National Bank of Chicago, the Harris Trust and Savings Bank of Chicago, the United States Trust Company of New York, and the General Electric Company. His unusual talents were made available also to the board of trustees of the University of Chicago, the Newberry Library, and the Children's Memorial Hospital, of which he served many years as president.

"A graduate of Williams College, he served many years on that institution's board of trustees, his outstanding service being rewarded in 1953 by the honorary degree of Doctor of Laws.

"While we feel heavily the loss of his guidance and counsel, we feel even more deeply our personal loss of his friendship and his warm personality.

"Therefore, be it resolved that this expression of our high appreciation of his outstanding qualities and our sorrow at his death be permanently preserved in the records of the Board of Trustees of the Museum.

"And be it further resolved that our deep sympathy be conveyed to the members of his family and that a copy of this resolution be sent to his widow."

ATTENDANCE

Attendance increased in 1959 to 1,075,426, a gain of 26,025 over 1958. It is significant that the increase occurred in the latter part of the year, probably as a cumulative result of the Museum's many activities (December alone showed an increase in attendance of 19,500 persons). The increase was primarily on weekends, with the total of paid admissions declining slightly under that of the previous year. Increased parking facilities made it possible for visitors to attend the Museum despite inadequate public transportation.

LECTURE PROGRAMS FOR ADULTS

The 111th and 112th series of free Illustrated Lectures for adults were presented in James Simpson Theatre of the Museum on Saturday afternoons during March, April, October, and November. The wide variety of subject-matter ranged from India and the Philippines to Patagonia and Colorado. "Wildlife in Deep Freeze" was presented by Carl Eklund of the United States Fish and Wildlife Service, and Captain Finn Ronne's lecture "Probing Antarctica" revealed scientists in action during the International Geophysical Year. The Iron Curtain and the Bamboo Curtain have closed various sections of the earth, particularly Asia, to travel and photography, so that it becomes ever more difficult to present new and unusual variety in film lectures. The response of the public to the offerings of the Edward E. Ayer Lecture Foundation was most encouraging. Attendance at the seventeen lectures totaled 16,447.

JAMES NELSON AND ANNA LOUISE RAYMOND
FOUNDATION FOR PUBLIC SCHOOL AND
CHILDREN'S LECTURES

The trend in recent years of greater use of museums by school groups has continued, and we offered our usual programs, tours, and motion pictures to meet this increasing demand for organized groups to visit museums as a part of schoolwork. More than 2,000 groups totaling about 78,000 children were given tours and programs, and almost 300 groups (nearly 8,000 children) were on waiting lists. Many of these groups did not come to the Museum if there were no cancellations. The total number of organized groups in the Museum for the year was 4,485 groups including 206,583 students (many of these groups could not be assisted by Raymond Foundation and explored the Museum by themselves).

Use of the Museum by school groups has spread farther and farther into the suburbs and nearby towns and states. For example, the total of Chicago public, parochial, and private schools served was 742 groups with 26,261 students, the total of suburban public, parochial, and private schools served was 1,237 groups with 46,863 students, and the total out-of-state attendance was 133 groups with 5,031 students.

Of course the best educational program for a school group in the Museum is when one Raymond Foundation staff member can assist a group of not more than 35, but because of the great demand for services this best method often has had to be changed so that one staff member can direct and help a larger group of as many as 130. Programs therefore have been designed to help the student help himself in his search for information in the Museum halls. Most outstanding in demand and success for this type of program were "Ancient Egypt, Our Inheritance from the Past" (given in spring and fall 46 times to 4,247 students), "Bird Study" (given in the spring 46 times to 2,792 students), and "How Animals Adjust to Their Environment" (given 12 times in the fall to 791 students).

One of the greatest needs in this school-Museum program has been to get information and suggestions of programs to the schools and teachers to help them plan their Museum trips. Suggestions sent to all schools each September and February relate Museum programs and tours to courses of study at various grade-levels at the times needed. Often a program correlated with the course of study is of timely interest as well. An example in 1959 was "Moon and Meteorites" for intermediate grades, which offered a movie "A Trip to the Moon" and a tour of our excellent meteorite exhibits. Almost



NINE MUSEUM EXPLORERS
WERE PRESENTED WITH COPIES
OF DARWIN'S
"THE VOYAGE OF THE BEAGLE"

THEY ARE GROUPED
IN STANLEY FIELD HALL BEFORE
THE SPECIAL CENTENNIAL EXHIBIT
HONORING CHARLES DARWIN

WITH THEM IS
JOHN R. MILLAR, DEPUTY DIRECTOR
OF THE MUSEUM, WHO MADE
THE PRESENTATIONS

1,600 students participated in this program, which was given 47 times in March.

Other organized groups participated in programs especially planned for their needs, such as Boy Scout Hobby Day in January, Girl Scout intermediate-badge programs in February, Honor Days on Saturday mornings for Girl Scouts, Camp Fire Girls, Cub Scouts, and YMCA groups, and a summer program "Goin' Fishin' " for organized groups of all kinds, such as day camps and play groups.

For individual children the Museum continued its spring, fall, and summer motion-picture programs—33 were given to 20,864 children. A new activity was added in the fall on Saturday-morning motion-picture days—an exploration sheet was given to each child to direct him or her to the Museum exhibits pertinent to the movie of the day. Raymond Foundation's looseleaf Museum Stories were distributed as usual to the children who attended the spring and fall motion-picture programs on Saturday mornings.

Museum Journeys continued for individual children, with four different journey-subjects presented during the year: "Life of Ancient Seas," "Goin' Fishin'," "Giant Plants," and "Animals of the Ice Age." During the year 945 Journeys were completed and reports turned in. Awards were presented in spring and fall to boys and girls who had successfully completed Museum Journeys as follows: 38 completed a first group of four Journeys and became Museum Travelers; 17 completed a second group of four Journeys and became Museum Adventurers; 9 completed a third group of four Journeys and became Museum Explorers; 13 completed a fourth group of Journeys (this takes 4 years) and became eligible for the last special Journey, which is called "The Voyage of the Beagle" in honor of the Darwin Centennial (see page 22). This Journey takes the Museum Explorers around the Museum to see the exhibits of some of the things that Charles Darwin saw on his famous trip on the *Beagle*. On November 21, nine Museum Explorers were presented with copies of Darwin's book *The Voyage of the Beagle* to prepare them for the Journey and were photographed in Stanley Field Hall in front of the special exhibit honoring Darwin (see facing page).

The first four boys and girls who successfully completed this Journey were made charter members of the new Chicago Natural History Museum Discoverers' Club. Club members receive a membership card signed by the Director of the Museum and, among other privileges, are entitled to a bound copy of each series of Museum Stories and a subscription to the Museum's *Bulletin*.

A summary of activities of Raymond Foundation for the year, with attendance figures, is presented on the following page.

RAYMOND FOUNDATION ATTENDANCE FOR 1959

1. WORK WITH CHILDREN IN THE MUSEUM

| <i>A. With school groups</i> | Groups | Individuals | Groups | Individuals |
|--|--------|-------------|--------|-------------|
| Chicago public..... | 658 | 23,644 | | |
| Chicago parochial..... | 44 | 1,710 | | |
| Chicago private..... | 40 | 907 | | |
| Suburban public..... | 1,192 | 45,203 | | |
| Suburban parochial..... | 38 | 1,516 | | |
| Suburban private..... | 7 | 144 | | |
| Out-of-state..... | 133 | 5,031 | | |
| Total for school programs..... | 2,112 | 77,831 | | |
| <i>B. With other children's groups</i> | | | | |
| Tours only..... | 59 | 4,016 | | |
| Special programs..... | 44 | 6,435 | | |
| Journeys..... | | 945 | | |
| Children's movies..... | 33 | 20,864 | | |
| Total for other children's programs | 136 | 32,260 | | |
| TOTAL WORK WITH CHILDREN | | | 2,248 | 110,415 |

2. WORK WITH ADULTS

| | | | | |
|--|-----|-------|-------|---------|
| <i>A. Tours only</i> | | | | |
| Colleges..... | 31 | 656 | | |
| Public tours..... | 277 | 3,659 | | |
| Miscellaneous..... | 21 | 455 | | |
| Total tours..... | 329 | 4,770 | | |
| <i>B. Special programs</i> | | | | |
| Colleges..... | 12 | 467 | | |
| Miscellaneous..... | 61 | 6,246 | | |
| Total special programs..... | 73 | 6,713 | | |
| TOTAL WORK WITH ADULTS..... | | | 402 | 11,483 |
| GRAND TOTAL FOR RAYMOND FOUNDATION WORK..... | | | 2,650 | 121,898 |

THE N. W. HARRIS PUBLIC SCHOOL EXTENSION

The Museum's extension service whereby portable exhibits of natural-history material are made available to the schools of Chicago continued in operation through the year. The service consists of delivery to each school of two portable exhibits followed by two replacements on every tenth schoolday thereafter, so that in the course of a year each school receives 34 different exhibits. The increased emphasis today on science in the schools gives the exhibits greater significance than ever before.

At the beginning of the year 516 schools and other public-service institutions were receiving the exhibit-loans on schedule, and at the end of the year the lending list numbered 505. Four new schools were added during the year. Of the fifteen schools that were dropped, one was destroyed by fire, two were closed as fire hazards, nine were closed because of population shifts or for expressway land-clearance, one became inaccessible because of road reconstruction, and two asked to have the service discontinued because of disciplinary problems within the schools. The two departmental trucks were on the road during 167 days of the year and traveled 11,191 miles.

Breakage in circulation was moderate. Of 278 cases repaired in the shop, 22 had been broken in circulation and in only 6 of the 22 was there damage to the installations. An exhibit (short-eared owl) was stolen from an elementary school. In summer, when all of the portable exhibits were in the Museum for cleaning and storage, the catalogue numbers on some 400 of them were relettered. One new exhibit (a native wild rose) was completed in October, for which Staff Artist E. John Pfiffner painted the habitat background. Five duplicates of the exhibit will be ready early in the new year when the background paintings for them are finished. Several short trips into the field were made in order to gather the plants, soils, and environmental material needed in the preparation of the exhibits.

Requests for the loan of specific materials reached an all-time high. Sixty-one such requests were filled, an increase of 26 over last year, and Harris Extension signed out more than 600 birdskins and mounted birds, as well as other materials such as shells, rocks and fossils, insects, and mammal skins. Assembling these items was more time-consuming than in past years because 40 per cent of our floorspace had to be transferred to another department, and our study-collections, from which loans are selected, are now stored on the ground floor where they are less readily accessible. Sixteen of the standard portable exhibits were sent out as special loans apart from the routine lending program that is the primary function of Harris Extension.

MEMBERS' NIGHT

The annual Members' Night, which was held this year on Friday evening, May 8, turned out to be the Museum's most successful event of the kind. Ideal weather permitted 1,620 visitors to attend, this being the record attendance to date. Special features of the occasion were the first public showing of the famous Fuller Collection of ethnological objects under the title "Panorama of the Pacific" (see page 51), the newly reinstalled Hall of Meteorites and Minerals in the Department of Geology (see page 65), and the Hall of North American Trees in the Department of Botany (see page 57). Refreshments served in Stanley Field Hall during the evening carried out the Polynesian theme of the "Panorama." As usual, a chartered bus operated between State Street and Jackson Boulevard and the Fourteenth Boulevard entrance of the Museum. Many Museum visitors came early enough to begin their evening with dinner in the Museum cafeteria.

MEMBERSHIP

New Members of the Museum in all categories in 1959 totaled almost 1,500, more than doubling the figure for the previous year. Losses by death, transfers, moving from the Chicago area, and cancellations reduced the net gain to 833, which is substantially better than the net gain of 219 in 1958. The membership rolls of the Museum now carry the names of 6,555 different persons compared with 5,722 a year ago, in addition to a substantial number of Members who are listed in more than one category of membership. Names of Contributors elected during the year by the Board of Trustees are given on page 37. Complete membership lists begin on page 126. The fees of our Life and Associate Members build up the endowment funds of the Museum, and dues paid annually are included in our operating funds. The Museum is grateful to its Members for both their interest and their support.

It is with deep regret that I record the death of Dr. B. P. Georges Hochreutiner, Honorary Director of the Musée, Conservatoire, et Jardin Botaniques and Honorary Professor of the University, Geneva, who had been a Corresponding Member of this Museum since his election by the Board of Trustees in 1933. (See page 126 for roster of Corresponding Members—scientists or patrons of science, residing in foreign countries, who have rendered eminent service to the Museum.)



ASSISTANT TAXIDERMIST ANDERSON
EXPLAINS HIS WORK
TO INTERESTED YOUNG GUESTS

MEMBERS' NIGHT
AT THE MUSEUM

EXPEDITIONS AND FIELD TRIPS IN 1959

The Museum conducted fifteen expeditions and field trips in 1959. Their work is described in this Report under the headings of the scientific departments (see page references below).

Expeditions and field trips and their leaders are:

DEPARTMENT OF ANTHROPOLOGY—*Great Lakes Area Archaeological Field Trips* (George I. Quimby, Curator of North American Archaeology and Ethnology, see page 44); *Southwest Archaeological Expedition* (Dr. Paul S. Martin, Chief Curator of Anthropology, see page 41 and following)

DEPARTMENT OF BOTANY—*Northern Great Plains Botanical Field Trip* (Dr. John W. Thieret, Curator of Economic Botany, see page 54 and illustration on page 52)

DEPARTMENT OF GEOLOGY—*Idaho Paleontological Field Trip* (Dr. Robert H. Denison, Curator of Fossil Fishes, and Orville L. Gilpin, Chief Preparator of Fossils, see page 60); *Indiana Paleontological Field Trips* (Dr. Ranier Zangerl, Curator of Fossil Reptiles, and Dr. Eugene S. Richardson, Jr., Curator of Fossil Invertebrates, see page 59); *Southwest Mineralogical Field Trip* (Albert W. Forslev, Associate Curator of Mineralogy, see page 62); *Wyoming Paleontological Field Trip* (William D. Turnbull, Assistant Curator of Fossil Mammals, see page 60)

DEPARTMENT OF ZOOLOGY—*Belgian Congo Zoological Expedition* (Dr. Robert F. Inger, Curator of Amphibians and Reptiles, see page 68); *Colombia Zoological Expedition* (Kjell von Sneidern, see page 67); *Co-operative Field Work with United States Fish and Wildlife Service in the West Indies* (Loren P. Woods, Curator of Fishes, see page 68); *Egypt Zoological Field Trip* (Melvin A. Traylor, Jr., Associate Curator of Birds, (see page 68); *Great Plains Zoological Field Trip* (Rupert L. Wenzel, Curator of Insects, see page 67); *Great Smokies Zoological Field Trip* (Dr. Fritz Haas, Curator Emeritus of Lower Invertebrates, see page 67); *Malaya Zoological Field Trip* (D. Dwight Davis, Curator of Vertebrate Anatomy, see page 68); *Panama Zoological Field Trip* (Henry S. Dybas, Associate Curator of Insects, and Dr. Alan Solem, Curator of Lower Invertebrates, see page 67 and illustrations on page 66)

GIFTS TO THE MUSEUM

The Museum received from the estate of the late Homer E. Sargent 200 shares of stock in the Kern County Land Co., to provide for the maintenance of the American Indian collections that he presented several years ago, and from the estate of the late Dr. Jesse R. Gerstley \$4,890.48. Generous gifts were received from Mr. and Mrs. Herbert Baker, \$2,000; Arnold H. Maremont, \$2,500; Mr. and Mrs. Roy E. Sturtevant, \$1,000; and DeWitt Van Evera, \$3,300. The Johnson Foundation added \$3,000 to the S. C. Johnson Fund for our continuing study of waxy palms.

Stanley Field, President of the Museum, gave an additional \$39,832 for endowment and \$2,168 for current operating expenses. Mrs. Stanley Field, a Benefactor of the Museum, added \$15,000 to the Sara Carroll Field Fund; Sterling Morton added \$10,000 to the Sterling Morton Endowment Fund; and Dr. Maurie L. Richardson added \$1,750 to the Maurice L. Richardson Paleontological Fund.

Additions to other Special Funds were in the following amounts: \$962.50 from Miss Margaret Conover for the Conover Game-bird Fund; \$750 from C. Suydam Cutting for the C. Suydam Cutting Fund; \$200 from Dr. Clifford C. Gregg for the Commander Frank V. Gregg Memorial Fund; \$14,118.26 from the estate of the late Mrs. Abby K. Babcock for the Frederick Reynolds and Abby Kettelle Babcock Fund; and \$639.60 from the estate of the late Stewart J. Walpole for the Stewart J. Walpole Endowment Fund (for use of Special Funds in 1959 see page 116).

Herman Waldeck gave \$235 and Mr. and Mrs. Louis Ware gave \$500 for budget purposes. Blair Coursen gave \$200 to assist in ornithological research. Other gifts came from Hamilton Allport, Edwin C. Austin, George A. Bates, William U. Bardwell, John Borst, Jr., Peder A. Christensen, Mr. and Mrs. Gaylord Donnelley, Mrs. Jerome Fallon, Calvin E. Fentriss, Joseph N. Field, Flexible Steel Lacing Company, Brimson Grow, John Plain Foundation, MAPI Foundation, Mrs. Langdon Pearce, Philip S. Rinaldo, Jr., Melville N. and Mary F. Rothschild Fund, Mr. and Mrs. Reuben M. Schutz, and Edgar J. Uihlein, Jr.

Contributors elected by the Board of Trustees are Mr. Herbert Baker, Mrs. Herbert Baker, Captain A. W. F. Fuller, Dr. Jesse R. Gerstley (posthumously), Arnold H. Maremont, George I. Qimby, and Dr. Alan Solem (for roster of Contributors see page 127). Gifts of materials received during the year are listed at the end of this Report (see page 118) and under the heading "Accessions" in the reports of the scientific departments (see pages 47, 54, 64, and 72).

Under the auspices of The Karl P. Schmidt Fund (see Annual Report 1958, page 30) three students were enabled to carry on studies at the Museum. These were Robert C. Feuer of the University of Michigan, who came to study turtles in the Museum collections, John Ostrom of Beloit College, who came to study certain dinosaurs in our collections, and José M. Gallardo of Museo Nacional in Buenos Aires, who came to study South American amphibians in the Museum collections.

This Fund, contributed by friends of the late Dr. Karl P. Schmidt of the Museum staff, is administered by the Museum except that grants-in-aid are awarded by a special committee that includes both Museum and non-Museum personnel and does not involve the Museum administration. An additional sum of \$471.06 was turned over to the Museum in 1959 for investment.



BRONZE
DISC

ARGENTINA

DIAMETER
11.5
INCHES

DEPARTMENT OF ANTHROPOLOGY

DEPARTMENT OF BOTANY

DEPARTMENT OF GEOLOGY

DEPARTMENT OF ZOOLOGY

POTTERY EXCAVATED
IN 1959 BY
SOUTHWEST
ARCHAEOLOGICAL
EXPEDITION

CANTEEN

ABOUT A.D. 1300
TULAROSA
BLACK-ON-WHITE

DUCK-EFFIGY POT

ABOUT A.D. 1100
RESERVE
BLACK-ON-WHITE



Department of Anthropology

Research and Expeditions

Archaeological work near Vernon, Arizona, was resumed for a fourth season by the Southwest Archaeological Expedition under the leadership of Dr. Paul S. Martin, Chief Curator of Anthropology (see page 36). He was assisted by Dr. John B. Rinaldo, Assistant Curator of Archaeology, Custodian of Collections Allen S. Liss, Howard Anderson, Margaret Alder, Michael Fox, Martin Hoffman, William Longacre, Mrs. Martha Perry, Mrs. Ruth Rinaldo, Roland Strassburger, and Mark Winter.

The basic objective of anthropological and, therefore, archaeological work is to explain the similarities and differences in culture patterns and the processes by which they evolved. When an anthropologist finds similarities in patterns in widely separated cultures, he assumes that these may be the result of parallel invention or development, diffusion, or migration. On a smaller scale, the same problem of similarities (and differences) is met with in tracing the development of Mogollon culture and in following the movement of the Mogollon people from west-central New Mexico to east-central Arizona and perhaps into the area of the contemporary Zuni Indians.

Excavations in 1959 were undertaken at two sites: (1) the Mineral Creek site, on the ranch of Earl Thode, and (2) a large pueblo site, on the east bank of the Little Colorado River near Springer-ville (Arizona), on the ranch of Robert B. Hooper.

The Mineral Creek site is a village of several surface rooms with masonry walls and a large depression. Six rooms were excavated. Masonry was inferior. One room included several related features: three storage bins, a firepit, and a ventilator. Most of the rooms had been provided with firepits and were therefore probably used as dwelling units. Just under the floor of one room a burial was found that yielded a duck-effigy pot and a necklace made of shell beads and many thousands of stone beads. A few hundred feet south of the pueblo was a large depression that, when excavated, proved to be a circular great kiva 9.3 meters in diameter with walls of native earth. Certain features of this structure appear to have been borrowed from the Chaco Canyon region to the north, although the hearth area, roof structure, and entrance may be Mogollon. Three burials were found within the great kiva: an adult (buried with a black-on-red pottery bowl and a plain red "seed jar"), an

adolescent, and a child. The tools of stone and bone show a continuity of Mogollon tradition and technology. Snowflake black-on-white was more abundant than any other painted pottery.

The conjectured date for this pueblo and great kiva is about A.D. 1100. The Museum expresses its thanks to Mr. Thode for permitting us to dig the site and to bring back the artifacts recovered.

The major work of the expedition staff was the excavation of the large pueblo on the Hooper ranch. The Museum is grateful to Mr. and Mrs. Hooper for granting permission to dig, for help given the expedition, and for permission to ship all artifacts to the Museum for study.

Two tiers of rooms were dug at right angles to one another. This was done in order to get a fair cross-section of the mound because it was impossible to excavate the whole edifice. Twenty-three rooms and two kivas were excavated.

It is thought that the nucleus of the pueblo was a small one-story building of ten or fifteen rooms. Other rooms had been added later. At some time early in the life of the village many ground-floor doorways were sealed, and some time after that another architectural change of major importance occurred. Ground-floor rooms were filled with dirt and rocks, roofs were removed, and then approximately sixty new rooms were built on this fill with the new floors four or five feet above the ground-floor levels. The walls of the upper rooms do not coincide with the earlier lower walls but crisscross the old ones. Apparently the people who built the upper rooms desired a pueblo that was completely different from the earlier pueblo in arrangement. Few such ruins are found in the Southwest.

Several hypotheses occurred to Chief Curator Martin and associates for this uncommon ground-plan. One is that, because of floods from the Colorado River, the inhabitants tried to keep out floodwaters by sealing doors. Perhaps this plan was only partially successful, and it was then necessary to raise the floor levels several feet to overcome this difficulty. But there seems to be no explanation for the crisscross wall-pattern. From the point of view of a modern engineer, it would have been simpler to have carried the walls straight up from bottom to top and to have kept the same general ground-plan and arrangement of parts. Since there is no temporal gap of any consequence (for example fifty years or more) nor any abrupt shift in popularity of pottery types, one cannot explain the new and different building as the caprice of newcomers. Nor can one very well postulate marauders as the cause for sealed doorways, raised floors, and crisscrossed walls. At the moment,

ANCIENT
GREENSTONE
"HEI TIKI"

FROM
THE MAORI
OF
NEW ZEALAND

HEIGHT
8.5 INCHES

FULLER
COLLECTION



then, we have no explanation. Square stone-lined firepits were found in almost every room. Petroglyphs of animals and men were pecked into the walls of some rooms.

Three kivas were found: two were excavated, but the largest was left untouched.

The smaller of the two excavated was paved with well-fitted slabs. In the mouth of the ventilator tunnel (at the edge of the bench) was a horseshoe-shaped slab. The ventilator shaft was small and placed, like a round chimney, between the faces of a wall. A bench occupied about a third of the kiva on the west side. This kiva was about 4 meters square. The larger kiva also had a bench, but on the south side. In the unpaved floor just south of center was a stone-lined rectangular firepit and an ash pit, north of that a stone vault, and just beyond that a kachina kihi in the north wall of the structure. On the southern platform was a large stone bowl. This kiva measured 6.5 meters by 4.4 meters.

Approximately 14,000 sherds and 1,000 tools of stone and bone were recovered from the Hooper ranch site. From the 14,000 sherds twenty-five restorable vessels have been located and are being mended. The most abundant painted pottery type (about 14 per cent of the total) was Tularosa black-on-white. Following that type and in descending order of frequency are several polychrome types. The Hooper ranch site has not been definitely dated but the conjectured time of occupation of the pueblo must have been about A.D. 1300 to 1375.

Dr. Donald Collier, Curator of South American Archaeology and Ethnology, carried on studies of materials collected in 1956 during the archaeological expedition to Peru and supervised the drawing of maps and plans for a projected publication on this research. His work with Dr. A. L. Kroeber, Research Associate in American Archaeology, on Nazca pottery from Peru was brought near completion. Curator Collier did research in Mexican archaeology in connection with the reinstallation of Hall 8 (Ancient and Modern Indians of Mexico and Central America) and prepared a paper on agriculture and civilization in Peru for presentation at the annual meeting of the American Anthropological Association (see page 91).

George I. Quimby, Curator of North American Archaeology and Ethnology, continued his research on problems of archaeology and environment in the Upper Great Lakes region. He made study trips to museums and universities in Michigan, examined collections owned by individuals, and conducted field research in various areas of upper and lower Michigan (see page 36).



RESTORATION BY WALTER BOYER
DRAWING BY GUSTAF DALSTROM

PHOTOGRAPH
AND DRAWING
OF
RARE POTTERY BOWL
(RESTORED)



MASKED FIGURES
MAY REPRESENT
KACHINAS

DATED
ABOUT
A.D. 1325

EXCAVATED
BY
SOUTHWEST
ARCHAEOLOGICAL
EXPEDITION
1959

Through the kindness of Mr. and Mrs. Charles W. Bissell, of Grand Rapids, Michigan, who provided transportation on their boat, Curator Quimby was able to visit an important site on an island off the Upper Peninsula of Michigan, where he made test excavations and obtained surface collections. He also made a preliminary archaeological survey of the north shore of Lake Michigan from Waugoshance Point to Mackinaw City and from St. Ignace to a few miles west of Manistique. Near Grand Marais, Michigan, Curator Quimby examined the locus of an Old Copper find partly covered by shifting sand-dunes in a fossil cedar-swamp high above Lake Superior. On Grand Traverse Bay at an Archaic site where surface collections were obtained he ran elevations and made test trenches in an attempt to determine the relationship of this site to the Nipissing stage of the Upper Great Lakes. The most rewarding part of his field work this year was the rediscovery of a protohistoric Woodland site in western Michigan. The Museum had acquired a large and comprehensive collection from this site, but it was without documentation and thus not scientifically useful. After six months of persistent inquiry that involved questioning various people and studying old letters and newspaper files, Curator Quimby was able to learn the approximate location of this site, which had been excavated thirty-five years earlier. Then he searched the area until he found a locus containing some of the identical forms of artifacts that were in the Museum's collection, thereby obtaining the specific location of the site. The Museum's collection, thus documented, will provide the basis for a forthcoming study of Late Woodland Indians.

During the year Curator Quimby completed a manuscript for a book on the archaeology, ethnology, and geography of the Upper Great Lakes region from 11,000 B.C. to A.D. 1800, which will be published by the University of Chicago Press as a contribution of Chicago Natural History Museum.

Dr. Roland W. Force, Curator of Oceanic Archaeology and Ethnology, carried on his research interests in Palauan social organization and political change, completing one phase relating to figures of speech in kin-group terminology.

Phillip H. Lewis, Assistant Curator of Primitive Art, continued research into variability of Melanesian and African art and into meaning of primitive art. Exhibition for the Division of Primitive Art was given great impetus by the decision to make Hall 2, which housed Roman and Etruscan antiquities, a hall of primitive art in which will be brought together outstanding art-objects from various primitive cultures of the world.

Dr. Kenneth Starr, Curator of Asiatic Archaeology and Ethnology, emphasized two types of research during the year. One type, representing a broad interest, centered in the study of the origins and early history of the various east Asian civilizations from the time of the earliest archaeological evidences down to the beginning of the historic period. A second type, representing a more specialized interest, has been directed toward Chinese ink-rubbings, a subject whose study for many centuries has been pursued by Chinese scholars but which until very recently has been but little explored by western students.

During the first part of the year Assistant Curator Rinaldo joined efforts with Chief Curator Martin in preparing a report on the excavation of Table Rock site, a large Pueblo Indian village in eastern Arizona. Analysis indicates that, although numerous trade materials were obtained and used locally, the bulk of the artifacts are Mogollon in character and represent a continuity extending back in time for some 2,000 years. From June to September Dr. Rinaldo supervised excavations for the Southwest Archaeological Expedition (see page 41), and after his return he continued his analysis of materials that was initiated in the field.

Accessions—Anthropology

The most notable accession within the area of Oceanic collections was an extremely fine neck pendant (*hei tiki*) of greenstone from New Zealand. This exceptionally large Maori ornament, one of the finest specimens of its kind, was presented to the Museum by Captain and Mrs. A. W. F. Fuller of London, England. The Fuller *tiki* is now a part of the extensive Fuller Collection of archaeological and ethnological materials from the Pacific acquired by the Museum in 1958 (see Annual Report 1958, page 21). Another outstanding addition to the Oceanic collections is an inlaid shield from the Solomon Islands. This exceedingly rare specimen (acquired by exchange with Raymond Wielgus) is one of three known shields of its type. The other two are in British museums.

Of materials received in the Division of Asiatic Archaeology and Ethnology during the year, one of the most interesting is a set of beautifully colored Chinese shadow puppets. These figures, which date possibly from the 18th century, include several rare pieces, among which are a handsome red bat (symbol of happiness), several city gates, Chinese-style furniture, and a large horse drawing a covered cart. Besides these puppets, which were the



RARE AND VIVIDLY COLORED
DONKEY-SKIN FIGURES
FOR THE
CHINESE SHADOW THEATRE
(BAT IS ABOUT 12 INCHES ACROSS)

POSSIBLY
FROM THE
18TH CENTURY

gift of Miss Edna H. Bahr, we were pleased to receive a complete fine-quality costume of a Manchurian lady from Mrs. Joel Baker and a string of ancient and very rare stone and glass beads (found in a tomb in southwest China) from Dr. David C. Graham, a Museum Contributor. Other materials received by the Department of Anthropology are listed at the end of this Report.

Care of the Collections—Anthropology

The work of cleaning, checking, and moving the South American collection into Room 35 was completed by Custodian Liss under the direction of Curator Collier. Assisting in this project during the year were Miss Ann Levin (Museum Fellow), Alfredo Evangelista (Thomas J. Dee Fellow), and Robert G. Axelrod (Antioch College student). Work was continued in checking and rearranging the Mexican collection that is being moved into the same storeroom. Expansion and reorganization of the study collection of textiles of the world was continued. Assistant Howard Anderson moved the Andaman and Nicobar Island collections from the Pacific Research Laboratory into the India-Southeast Asia storeroom as part of the program to consolidate geographic and cultural areas. Also placed in this storeroom was material from India, Ceylon, Andaman Islands, and Nicobar Islands removed from exhibition in Hall L. During the year portions of the study-storage materials in the Pacific Research Laboratory were rearranged and inventories were made of all drawer contents. This task virtually completed rearrangements that were begun in 1953.

In the Division of Asiatic Archaeology and Ethnology Curator Starr and Dr. Hoshien Tchen, Consultant, East Asian Collection, continued to process the Museum's excellent collection of Chinese ink-rubbings. Apart from the painstaking research involved in identifying and cataloguing these rubbings, research in which Dr. Tchen contributed largely, the work included repair of the fragile paper, some of which is several hundred years old. Miss Ellen N. Chase and Miss Susan Cook (Antioch College students) showed unusual sensitivity and skill in repairing and otherwise handling these rare and delicate materials. The work on rubbings, however, was not done at the expense of other materials in the collection, for with the excellent assistance of Miss Cook, the systematic organization and housing of the large collection of Asiatic coins were completed. Robert Axelrod completed the reorganization of the Japanese and Korean sections of the storage rooms.



SELECTED OBJECTS
FROM
THE FULLER COLLECTION
OF ETHNOLOGICAL MATERIAL
FROM THE SOUTH SEAS

"HEI TIKI"
(SEE PAGE 43)
IS DISPLAYED
IN OWN CASE

SPECIAL EXHIBIT
IN STANLEY FIELD HALL

Exhibits—Anthropology

Fifteen new exhibits were prepared for Hall 8 (Ancient and Modern Indians of Mexico and Central America) and two for Hall 7 (Ancient and Modern Indians of the Southwestern United States). These exhibits were designed by Artist Gustaf Dalstrom and prepared by him and Preparator Walter C. Reese. The materials used in the exhibits were mended and restored by Ceramic Restorer Walter Boyer. Dioramist Alfred Lee Rowell completed the diorama showing an Aztec market scene.

A major feature of Members' Night, May 8, was a special exhibit of selected portions of the Fuller Collection (see pages 25, 34, and 47). This temporary exhibit (on display through July 15 in Stanley Field Hall and through October 15 in Hall 18) was the first public showing of any extensive portion of the Fuller Collection.

A special exhibit "Indian Art of the Americas" was displayed in Stanley Field Hall from July 30 through October 28 as the Museum's contribution to the Festival of the Americas, which was held in connection with the Pan American Games (see pages 23 and 25). The exhibit, which presented major Indian art styles from Alaska to Chile during the past 2,500 years, included material selected from the Museum's collections and borrowed from eight other museums and from two individuals. Curator Collier, who selected the material and planned and installed the exhibit, prepared an illustrated catalogue of the exhibit (see page 100). The installation was designed by Daniel Brenner, Chicago architect. Essential support for the exhibit was given by Arnold H. Maremont, chairman of the Festival of the Americas.

In order to clear Hall 2 for the new Hall of Primitive Art (see page 46) it was necessary to move and retire the exhibits in Hall L and to move and revise the exhibits of Roman and Etruscan materials formerly in Hall 2. Assistant Curator Lewis planned and supervised these moves and revisions, which were carried out by Custodian Liss, assisted by Miss Chase, Miss Levin, Preparator Reese, Artist Dalstrom, and Ceramic Restorer Boyer. However, the greatest amount of work fell to the Divisions of Maintenance and Engineering in moving, painting, and cleaning and in refurbishing and relighting the older exhibits.

Hall L was chosen to house the Roman-Etruscan exhibits because of its proximity to the Egyptian exhibits in Hall J and the Kish materials in Hall K. A doorway was cut through the wall between Hall L and Hall J to permit visitors to move more freely among the exhibits of related ancient Mediterranean cultures.

GRAVEL-BAR VEGETATION

KAKISA RIVER
NORTHWEST TERRITORIES
CANADA

NORTHERN
GREAT PLAINS
BOTANICAL
FIELD TRIP



Department of Botany

Research and Expeditions

Dr. Margery C. Carlson, Associate in Botany, returned in November from an extended trip in Europe and the Canary Islands. She visited the herbaria, botanical museums, and botanical gardens in the larger cities of Europe, where she studied collections of the genus *Russelia* (Scrophulariaceae) and prepared additions and revisions for her monograph on the genus that was published in 1957 by the Museum. She completed her studies of the attachment and penetration of the coffee tree by certain parasites of the Loranthaceae.

J. Francis Macbride, Curator of Peruvian Botany, completed for the *Flora of Peru* a manuscript to equal approximately a hundred printed pages covering the palms found in Peru, and his manuscript on the families Haloragaceae through Convolvulaceae was published by the Museum (see page 100). Paul C. Hutchinson, of the Botanical Garden of the University of California, reported on the present status of his work on the family Cactaceae for the *Flora of Peru* and the drawings prepared under his supervision.

Dr. Earl E. Sherff, Research Associate in Systematic Botany, completed his article on *Dahlia* for the *Encyclopaedia Britannica* (to be printed in the 1960 edition) and the text for *Bidens* (to be incorporated in a Flora of West Virginia). Dr. Rogers McVaugh, Curator of Vascular Plants at the University of Michigan and Research Associate in the Museum's Division of Vascular Plants, continued work on his critical catalogue of the Sessé and Mociño collection of Mexican plants on loan from Madrid.

Curator Emeritus Dr. B. E. Dahlgren, with the collaboration of Dr. Sidney F. Glassman of the University of Illinois (Navy Pier, Chicago), continued research on the wax-palm genus *Copernicia* and prepared the manuscript for a monograph on these plants. Dr. Theodor Just, Chief Curator of Botany, continued his synoptical studies of gymnosperms and comparative studies of modern and fossil angiosperm pollen, prepared several papers for publication (see page 104), and completed his bibliography of paleobotany, which is to be published in 1960.

Dr. C. Earle Smith, Jr., Associate Curator of Vascular Plants, completed his monographic study of *Cedrela* for publication by the Museum. He continued his preparation of a critical catalogue of the Muhlenberg Herbarium (property of the American Philosoph-

ical Society), which is on loan from the Academy of Natural Sciences of Philadelphia. The loan of the Elliott Herbarium from Charleston Museum makes possible the crosschecking of type specimens in the two collections. With Curator Thieret he prepared two papers (one in press) on the occasion of the centenary of the death of Thomas Nuttall, early North American naturalist.

Dr. John W. Thieret, Curator of Economic Botany, continued his studies of various tropical American Scrophulariaceae and of temperate and subarctic Gramineae. He published a statistical enumeration of the Scrophulariaceae (see page 104) and prepared some entries of Scrophulariaceae for the international *Index Nominum Genericorum* (Utrecht). Accompanied by Robert J. Reich, Custodian of the Herbarium, he made a field trip to the District of Mackenzie, Northwest Territories, Canada, from June 1 to August 15 (see page 36). Most of the time was spent surveying the vegetation along the new Enterprise-Mackenzie River Highway located on the northern edge of the Alberta plateau southwest of Great Slave Lake. In addition, several days were spent at Lake-on-the-Mountain atop the Horn Plateau west of Great Slave Lake, an area previously unvisited by a botanist.

Miss Edith M. Vincent, Research Librarian, prepared indices for various volumes of Museum botanical publications, checked all references for the *Flora of Peru*, and assisted many correspondents by finding and sending to them descriptions of and information about various plants.

Accessions—Botany

The largest gifts to the herbarium of vascular plants were 4,809 plants of the United States collected by Holly Reed Bennett and 1,101 plants of Mexico, Panama, and Venezuela collected by Associate Curator Smith. Professor P. Maheshwari of the University of Delhi (India) sent an unusual gift of two vials of flowering specimens of *Lemna paucicostata* and *Wolffia microscopica*. The largest collection of plants acquired through exchange included 433 specimens of vascular plants of the Northwest Territories from the Canada Department of Agriculture. An interesting collection of 950 vascular plants of South Africa was purchased from H. J. Schlieben of the National Herbarium in Pretoria. The cryptogamic herbarium received a very good collection of bryophytes of Peary Land as an exchange from the Botanical Museum of the University, Copenhagen.



HALL OF NORTH AMERICAN TREES

REOPENED ON
MEMBERS' NIGHT

Care of the Collections—Botany

Associate Curator Smith spent considerable time in reorganizing the herbarium of vascular plants. A large amount of previously unidentified but mounted material has been filed with the proper families, unmounted specimens are being checked to find which specimens remain to be mounted for the herbarium, and duplicate specimens are being processed for distribution on an exchange basis. Under Dr. Smith's supervision, Frank J. Reid, student assistant, checked during the summer months all Pringle material in the herbarium so that duplicates in this collection could be removed and specimens missing in our collection added. Miss Phyllis I. Moreen, student assistant, cleaned and refiled the entire fruit collection. Gymnosperms are being segregated from angiosperms, and all Illinois specimens are being interfiled in the general collection.

In April a new plastic mounting-technique was initiated, which insures a tighter bonding of the specimens to the mounting paper and should reduce the amount of repair needed through the years. With this technique, production of mounted specimens for individual mounters more than doubled. A total of 23,481 plants was mounted and added to the herbarium of vascular plants. Mounting was done by Mrs. Ann Bigelow, Miss Olive Doig, and Miss Alice Middleton and, for part of the year, by Kent Cherry, Miss Katherine Sanford, and Miss Adrienne Watkins (student assistants) and by Miss Mary E. Adams and Miss Susanne G. Fried (Antioch College students). Additional aid in plant mounting was given by Girl Scouts as their Museum Aid Project, one group from Du Page County (Mrs. E. C. Gollan, Leader, Downers Grove) completing their project that was begun in 1958 and another group from south Cook County (Mrs. F. J. Vodvarka, Leader, Homewood) completing their project in March.

Mrs. Jennie Pletinckx and Custodian Reich, assisted during part of the year by Miss Fried, filed, checked, and repaired specimens. Nils Siegbahn packed materials for shipment, and Robert Yule prepared seed packets and specimen papers. A total of 1,417 vascular plants was sent out in exchange.

Miss Middleton repaired 1,530 specimens of cryptogams for the general collection, and Mrs. Effie M. Schugman filed specimens. A total of 46 wood specimens was sent out in exchange. Curator Thieret was assisted in the care of the wood, seed, and economic collections for part of the year by Mrs. Bigelow and Richard H. Wood, Jr. (Antioch College student). Work on restoration of the type-photograph collection was almost completed by Assistant J. S.

Daston before his five-month leave of absence, only 80 stained negatives remaining to be processed.

Mrs. Lenore B. Warner continued to catalogue and file negatives and prints of the type-photograph collection of flowering plants. She checked all work processed by Assistant Daston, handled orders and exchanges, continued the preparation of a generic index for the Macbride photograph collection, indexed and prepared herbarium sheets to be photographed for the general collection, prepared a numerical index for all Liebmann plates (also indexed in the collection of Mexican plants), and sent out a total of 1,197 type photographs in exchange. Reorganization of the photograph collection of plant models, exhibits, plant products, habitats, etc., was begun by Mrs. Dorothy Gibson, Departmental Secretary, who was assisted in this project during part of the year by Miss Adams and Miss Moreen.

Exhibits—Botany

The Hall of North American Trees (Hall 26, Charles F. Millspaugh Hall) was reopened on Members' Night, May 8 (see page 34), when about 60 per cent of the reorganization of the hall had been completed. Before the end of the year 84 exhibits of North American trees (including 26 wood exhibits) were reconditioned and nearly all of them had been reinstalled. Chief Curator Just and Curator Thieret prepared 84 new labels for these exhibits and Curator of Exhibits Emil Sella recolored 36 transparencies of forest types. Five new exhibits were installed in Hall 26: "Trees of the Past," "Dutch Elm Disease," "How a Tree Lives," and "Forests of the United States" were placed in four central wallcases and a Carboniferous stump of *Stigmaria* (gift of the American Museum of Natural History) was mounted in the center of the hall with illumination from the ceiling. For Members' Night Associate Curator Smith prepared for the Department of Botany a display "America's Oldest Herbarium," which featured several plant specimens of especial interest from the herbarium of Rev. G. H. E. Muhlenberg, including a Linnean isotype collected near Uppsala, Sweden, by the originator of modern classification. Most of the work on the various exhibits was done by Curator Sella, Artist-Preparator Samuel H. Grove, Jr., Technician Frank Boryca, and Preparator Walter Huebner. Parts of the special exhibit of Darwiniana in Stanley Field Hall during November and December (see pages 25 and 76) were prepared by Artist Grove and Artist Dean Randall.

DUNKLEOSTEUS
(A SECTION OF THE EXHIBIT)

FIRST IN A SERIES
OF NEW EXHIBITS
ON FOSSIL FISHES
IN HALL 38

OF THE DEVONIAN PERIOD



ARTHRODONTA

ARTHRODONTA, a group of fossil fishes, is shown in the accompanying illustration. The group includes the famous Dunkleosteus, which is shown in the accompanying illustration. The group also includes the famous Dunkleosteus, which is shown in the accompanying illustration.

ARTHRODONTA, a group of fossil fishes, is shown in the accompanying illustration. The group includes the famous Dunkleosteus, which is shown in the accompanying illustration. The group also includes the famous Dunkleosteus, which is shown in the accompanying illustration.

Department of Geology

Research and Expeditions

Pursuing their investigation of the occurrence of fossil vertebrates and invertebrates in a Pennsylvanian black shale in Parke County, Indiana (see Annual Report 1958, page 59), Dr. Rainer Zangerl, Curator of Fossil Reptiles, and Dr. Eugene S. Richardson, Jr., Curator of Fossil Invertebrates, spent two weeks in the field during the summer (see page 36). Later, in November, they returned to that area and conducted a two-day field conference with members of the Indiana Geological Survey. Both trips led to clarification of points in the stratigraphy of the area.

In the laboratory they continued their work on the fossils collected in the course of this project. They made preliminary notes on all of the many thousands of fossils from the two principal Mecca project localities (Mecca quarry and Logan quarry). This included making and studying 313 X-ray photographs of specimens in the black shale. With an electronic printer purchased this year from a National Science Foundation grant, prints were made of about one-third of the mass of X-ray films of the collection acquired during the year and previous years. These prints are superior to the original films for the purpose of comparative study. Optical analysis of the Mecca shale itself was also made, and a large number of microscopic sections of the shale from the Mecca and Logan quarries was ground and a qualitative and quantitative record of the composition was made.

George Langford, Curator of Fossil Plants, subjected the collections under his care to a complete overhauling to make them more accessible in the two storerooms. The collections consist of three extensive and representative assemblages of fossil plants: one from the Pennsylvanian of Will County, Illinois, and the other two from the Lower Eocene and Upper Cretaceous of the southern states. Many species are involved, some known, others new or informative. Preliminary studies have been made of these new species and some have been described and illustrated.

Dr. Robert H. Denison, Curator of Fossil Fishes, completed his study of Lower Devonian fishes from northwestern Ohio, a collection that was presented to the Museum in 1956 by Dr. J. Ernest Carman of Ohio State University. He has commenced a revisionary study of the Cyathaspididae, a primitive group of Silurian and Devonian jawless vertebrates. This will be based on collections

made during several field trips in the United States and Canada, as well as on an extensive series of casts of European specimens.

During July and August, Curator Denison, accompanied by Orville L. Gilpin, Chief Preparator of Fossils, prospected in the Rocky Mountains from Alberta and British Columbia south through Montana and Idaho to Utah and Wyoming (see page 36). The northern part of the trip was largely reconnaissance with the purpose of determining whether the Devonian formations showed promise of yielding any good fossil-fish assemblages. In Idaho, the Devonian Water Canyon formation was traced northwards from the outcrops in Utah that were worked in 1949 and 1950. Important additions to the fauna were made, including the first articulated fishes that have come from this formation. The last few days of the trip were spent at a new Devonian locality in the Bighorn Mountains of Wyoming. The abundant and well-preserved material obtained has prompted plans for future work here.

William D. Turnbull, Assistant Curator of Fossil Mammals, studied the collections of Washakie formation mammals from Wyoming and spent ten days in the Carnegie Museum at Pittsburgh in this connection. He continued his work on the mammalian masticatory apparatus of the insectivore *Echinosorex*, and with Dr. Charles A. Reed (University of Illinois) he studied two new specimens of the early Oligocene insectivore *Arctoryctes*. Of the numerous rodent specimens of the Washakie fauna that have received special attention, a highly specialized small jumping rodent *Protoptychus* appears to have had a dominant role. In the laboratory, assisted by Burton Adlerblum, a graduate student from the University of Chicago, he sorted out a goodly number of the fossil mammal-teeth from the concentrates taken from ant hills in the lower Washakie beds. He returned with Preparator Ronald J. Lambert to the Washakie basin for six weeks of collecting in the Eocene beds in June and July (see page 36). Noteworthy finds were an articulated skeleton of the little rodent *Protoptychus* and a uintathere skull.

Albert W. Forslev, Associate Curator of Mineralogy, pursued his study of the mineralogical and chemical composition of sediments and sedimentary rocks. Much of his time was devoted to the investigation of the minerals making up the clay-sized fraction of these materials. These "clay minerals" occur as crystals less than one ten-thousandth of an inch in diameter and X-ray diffraction techniques are necessary for their identification. Among the materials investigated were black shales from the Mecca quarry, lake and swamp clays, and soils. He co-operated with Chief Cura-



CURATOR ZANGERL
WORKS ON A
SIX-FOOT FOSSIL SHARK
FROM LOGAN QUARRY
IN WEST-CENTRAL INDIANA

tor Roy in some X-ray diffraction work on a new phosphate mineral in the Springwater meteorite. The X-ray diffraction equipment in the Chalmers Mineralogical Laboratory was used on several occasions during the year to analyze and identify materials of the Museum's Department of Anthropology, particularly for some work on potsherds with Howard Anderson.

In September Associate Curator Forslev went on a mineral-collecting trip to various mining areas of the southwestern United States, among which were the Bisbee, Arizona, copper deposits, the borax deposits at Boron, California, and Death Valley, and the recently discovered rare-earth deposits at Mountain Pass, California (see page 36). Excellent specimens for exhibition and material for research were collected. One hundred and fifty insect-bearing concretions of Miocene age, which were collected in the Mohave Desert, were turned over to the Division of Paleontology.

Bertram G. Woodland, Associate Curator of Petrology, made complete analyses of the major constituents of two volcanic ashes, one from Volcano Concepcion in Nicaragua and the other from Volcano San Salvador. In collaboration with the Museum's Department of Anthropology he made petrographic analysis of more than a hundred thin-sections of potsherds collected during the Museum's southwest archaeological expedition of 1958 and from other areas, aided in identification of the material used in making various artifacts, and investigated the nature of the continued corrosion of metallic objects in the collections, making suggestions for the treatment most likely to arrest the corrosion. In the field of research, Woodland continued his petrographic work on a collection of igneous and metamorphic rock from northeast Vermont and collaborated with Chief Curator Roy on the microscopic examination of the silicate portion of the pallasite meteorite, Springwater.

Dr. Sharat K. Roy, Chief Curator of Geology, devoted the greater part of the year to duties connected with completing the installation of twelve meteorite exhibits. On completion of the exhibits, he made detailed petrographic examination of a new mineral in the pallasite Springwater meteorite. The mineral, a magnesium phosphate, which has not been previously reported from natural sources, partially replaces and interdigitates with the iron surrounding the olivine nodules. The mineral will be named Farringtonite in honor of the former Curator of Geology, the late Dr. Oliver Cummings Farrington, who devoted most of his academic life to the study of meteorites. Chief Curator Roy also revised and completed a paper on the Walters meteorite, a chondritic stone that was found at Walters, Cotton County, Oklahoma.



HALL 38

REMOUNTED
IRISH GIANT DEER

Accessions—Geology

Notable additions to the collection of fossil invertebrates include a splendid Pennsylvanian (Coal Age) insect from Nova Scotia, the gift of Dr. James E. Canright. Dr. Willard P. Leutze donated 22 fossil eurypterids, including several specimens of very rare species, all collected by him in the Silurian of West Virginia. Among the specimens collected during the summer by Curator Denison and Chief Preparator Gilpin are 113 trilobites, 15 crustaceans, and 7 other fossil invertebrates from the Middle Cambrian Stephen formation, exposed high on the flank of Mount Stephen in British Columbia. These well-preserved specimens are from a spot very close to C. D. Walcott's famous Burgess Pass locality and represent essentially a lateral development of the fauna restored in the Museum's Cambrian habitat group (Hall 37).

Sixty-five specimens of Eocene fishes from Monte Bolca, Italy, were received as the first part of an exchange from the Museo Civico di Storia Naturale in Milan (the Monte Bolca locality is famous for the large variety and excellent preservation of its marine fishes, many of which are closely related to living forms). A small collection of Asiatic fossil mammals, which was purchased from Robert Somerville, was added to the collection of fossil mammals. Two gifts of selected fossil plants collected in the Eocene of Wyoming and Tennessee by the Robert H. Whitfield family considerably enriched the fossil-plant collections. Dr. Edward P. Henderson presented a polished slice of Bonita Spring meteorite, a fall not represented in the Museum's meteorite collection.

Care of the Collections—Geology

The purchase of 44 new steel storagecases has relieved overcrowding in the collections of fossil invertebrates and plants. Specimens temporarily stored in boxes have now been added systematically to the study collection, where they are readily available for reference. At the same time, the collection of fossil fishes has been moved to new quarters, where the specimens are much more accessible. David Techter, Assistant in the Division of Fossil Vertebrates, spent considerable time in reorganizing the collections.

In the Division of Mineralogy and Petrology work continued on the identification, cataloguing, and labeling of the several thousand mineral specimens obtained in the Nelson Collection (see Annual Report 1958, page 63). A complete card index of the

minerals not represented in the Museum's collections was made to provide a quick checklist for obtaining specimens as they become available. Likewise, the lithology collection was completely rearranged and a complete card index of the specimens was assembled systematically according to type of rock. Much of this work, particularly the task of storage and rearrangement of the mineral, economic geology, and lithology collections was done with the aid of Miss Judith L. Lipkowitz, Miss Gretchen S. Quigg, and Miss Judith V. Young, Antioch College students.

The entire meteorite collection was rechecked as to classification, alphabetical order, weight, and number of individuals representing each fall. Also all oxidized iron specimens were re-etched and treated with a rust-resisting reagent.

Exhibits—Geology

The first of a series of new exhibits of fossil fishes was installed in Ernest R. Graham Hall (Hall 38). The new exhibit deals with an extinct Devonian group of armored fishes (placoderms) and features a mount of one of its largest members, *Dunkleosteus*. In the same hall two fossil mammal-skeletons (the remounted Irish giant deer and the restored great ground sloth) were reinstalled. Both skeletons are protected by new bases with glass panels. The fine work of remounting, restoration, and reinstallation was done by Chief Preparator Gilpin and Preparator Lambert.

In the new Hall of Meteorites and Minerals (Hall 35) twelve new exhibits devoted to meteorites were completed during the year. An attempt has been made to present the subject-matter simply, with special emphasis on the origin, phenomena of fall, form, classification, structure, composition, and distribution of meteorites. Tektites and the relationship of meteorites to terrestrial rocks are also shown. An outstanding exhibit in the hall is an oil painting of the Arizona meteor crater, which is shown with specimens that were collected in and around the crater. The painting and other illustrative materials in the hall are the competent work of Miss Maidi Wiebe, Departmental Artist, as is the illustrative and reconstructive work in the fossil-fish exhibit in Hall 38. Five exhibits in the Hall of Physical Geology (Hall 34) were dismantled, renovated, and reinstalled, work made necessary by the discoloration of the backgrounds. The exhibition program was ably carried on by Harry E. Changnon, Curator of Exhibits, Henry Horback, Assistant, and Henry U. Taylor, Preparator.

GEOGRAPHICAL SCOPE OF
OUR FIELD WORK AND
VARIED CONDITIONS UNDER
WHICH IT IS DONE

HUMID FOREST
OF PANAMA
IN WHICH SOLEM
AND DYBAS WORKED

EGYPTIANS GET SPECIMENS
OF BARN OWL FROM NEST IN
WELL IN ARID EGYPT ON
TRAYLOR FIELD TRIP



Department of Zoology

Research and Expeditions

Each of our zoologists was in the field in some part of the world for new material and experience to further his studies or had a collector afield getting specialized material for him. This work was carried on in the United States, Canada, Panama, the western Atlantic off the West Indies, Colombia, Egypt, Belgian Congo, Nepal, Malaya, and the Philippine Islands. All but the Colombia work was by staff personnel.

PANAMA. Curator Alan Solem and Associate Curator Henry S. Dybas spent three months (January through March) in Panama and the Canal Zone studying the fauna of the forest floor (see page 36). Nearly a month was spent in the nature preserve on Barro Colorado Island in the canal, then a month in the lowland forest of the Pacific coast, and finally a month in the mountain forest of the Chiriqui highlands near the Costa Rica border. Curator Solem obtained thousands of mollusks together with an extensive series of photographs of organisms in their native habitat. Associate Curator Dybas investigated the minute feather-wing beetles (Ptiliidae) and the ant-guest beetles of the family Limulodidae, whose taxonomy and biology are his special interest. To facilitate study a battery of sixteen portable insect-funnels (berlese-type), made especially for the trip, was used to sieve out minute insects and other animals from the forest floor. Incomplete sorting of the collection indicates an extensive fauna of minute insects that is still almost completely unknown.

COLOMBIA. Kjell von Sneidern (now of Cali, Colombia) collected birds and mammals in the northeastern part of Colombia in the Arauca area where no previous systematic collecting had been done (see page 36). Although the collections were made early in the year we have not yet received the material.

UNITED STATES AND CANADA. Curator Rupert L. Wenzel, accompanied by his son, spent six weeks (June and July) along the eastern, northern, and western edges of the Great Plains from southern Canada to Colorado (see page 36). First-hand knowledge of local conditions and their effects on insect distribution is essential in interpreting problems in his current studies of histerid beetles. Curator Emeritus Fritz Haas made his headquarters at Highlands (North Carolina) Biological Station while he was studying the mollusks of the Great Smoky Mountains (see page 36).

WESTERN ATLANTIC OCEAN. Curator Loren P. Woods again participated in co-operative field work with the United States Fish and Wildlife Service on the research vessel *Oregon* (September through October), as he did in 1958 and 1957 (see page 36). This year the *Oregon* trawled in the waters of the West Indies, especially off Puerto Rico and the Virgin Islands, to explore for commercial shrimps. However the fish brought up in the trawls from depths ranging from 17 to 380 fathoms were rich in new species.

EGYPT. Research Associate Harry Hoogstraal, still stationed in Egypt, continued to send us specimens of many kinds of animals. Associate Curator Melvin A. Traylor, Jr., joined him for six weeks (April and May) as the guest of United States Naval Medical Research Unit No. 3 in order to study the resident and migratory birds that are hosts to arthropod-borne diseases and as such are of particular importance to Hoogstraal's studies (see page 36).

BELGIAN CONGO. Curator Robert F. Inger made a trip (February through May) to Garamba National Park in the savanna country of extreme northeastern Belgian Congo to study the ecology and behavior of the frogs and toads there (see page 36). This was part of a larger project that included reporting on a large collection of these animals at the request of the Institut des Parcs Nationaux du Congo Belge.

NEPAL. Field Associate Robert L. Fleming's activities included a trip from his mission headquarters at Kathmandu to far western Nepal to study the distribution of birds there.

MALAYA. After Curator D. Dwight Davis participated in the Darwin-Wallace Centenary Science Congress at the University of Malaya, Singapore, in December, 1958 (see Annual Report 1958, page 85), he and Dr. John R. Hendrickson of the University of Malaya spent January and part of February studying and collecting in the rain forests of Malaya (see page 36). They visited various points from King George V National Park in the north to the vicinity of Singapore Island.

PHILIPPINE ISLANDS. After a year of study in the United States (1958) Associate D. S. Rabor was back in the Philippines and made a trip (March through April) into far northern Luzon where he collected birds.

DIVISION OF MAMMALS. Completion of the first draft of the checklist of South American mammals by Curator Philip Hershkovitz (aided by a grant from the National Science Foundation) marks the end of one phase of this comprehensive survey. Results of further revisions of classifications, relationships, and distribution, which have resulted in short papers on some rodents, deer, carni-

vores, and monkeys, will be included in the final checklist of mammals. Bats collected by Research Associate Hoogstraal in Africa form the nucleus of the report on which recently appointed Assistant Curator Karl Koopman is currently engaged.

DIVISION OF BIRDS. Reports on recent collections from Peru and from Colombia, which occupied Curator Emmet R. Blake, have already resulted in the publication of the descriptions of several new forms and a faunal paper on the birds of Cerro Macarena, Eastern Colombia (see page 105). In collaboration with Gunnar Hoy of Argentina he prepared a paper on the birds of northern Argentina. Associate Curator Traylor continued work on his checklist of Angola birds and on the Egyptian birds that are hosts to arthropod-borne diseases. Associate Ellen T. Smith completed a revision of a South American parrot. Chief Curator Austin L. Rand investigated some correlations in wing size and body weight of birds, nest structure and ornamentation in nuthatches, and late records of a supposedly extinct Philippine hanging parrot. In the course of studies on recent Philippine collections from Associate Rabor a new species of babbler in northern Luzon was discovered. Chief Curator Rand has co-authored a book-length manuscript on our midwestern seasons that has been accepted by a New York publisher.

DIVISION OF AMPHIBIANS AND REPTILES. Curator Inger (assisted by a grant from the National Science Foundation) is continuing a study of the reptiles and amphibians of Borneo. With Assistant Hymen Marx he is studying the food habits of amphibians of the Belgian Congo and has completed a revision of a genus of snakes.

DIVISION OF FISHES. Taxonomic studies of the marine fishes of the Gulf of Mexico, Caribbean Sea, and the Atlantic Ocean occupied Curator Woods, who published a short paper describing a new species (see page 106). Associate Marion Grey carried on her survey of the fish fauna found below a depth of 900 meters, completed the final report on the Family Gonostomatidae for *Fishes of the Western North Atlantic* (a series of volumes published by Sears Foundation), and published several short papers including descriptions of three new genera (see page 105).

DIVISION OF INSECTS. Curator Wenzel's monograph on the genus *Margarinotus* (histerid beetles) has been delayed while awaiting receipt of critical material from Europe. However he has been studying an exceptional collection of histerid beetles that live with army ants. In this remarkable collection, which was made in Panama by Carl Rettenmeyer (University of Kansas) in connection with studies on the biology of army ants, are a half dozen new

genera and about twenty new species. Curator Wenzel has also prepared several short papers on histerid beetles from the Mascarene Islands and commenced a study of the bat flies (family Streblidae) of Panama in collaboration with Captain Vernon J. Tipton.

Associate Curator Dybas has made good progress on his revision of the Limulodidae, a family of minute beetles that live mostly with army ants in the American tropics. His two papers on the population ecology of periodical cicadas, based on data gathered in 1956, are being readied for publication (Curator Davis is co-author of one and Dr. Monte Lloyd, currently at Oxford University, is co-author of the other). He completed a paper describing a new genus of blind ptiliid beetle from a bat cave in South Africa. Research Associate Charles H. Seevers continued work on his monograph on the rove beetles that live with army and driver ants. Associate Harry G. Nelson studied the classification of dryopoid water beetles of the genus *Elsianus*. Associate Lillian A. Ross continued her study of spiders.

DIVISION OF LOWER INVERTEBRATES. Curator Emeritus Haas published several short papers on various phases of mollusks this year and studied, with Curator Solem, a collection from British Honduras. Curator Solem saw publication by the Museum of his monograph on New Hebridean nonmarine mollusks with essay on zoogeography of these land and fresh-water snails. Additional publications dealt with New Hebridean marine mollusks and Mexican and Pacific inland landsnails (see page 106). New research projects resulted in completion of his studies of Central and South American Pomatiasid landsnails and of Venezuelan material from Genoa Museum and partial completion of studies on more New Hebridean material and on hydrobiid snails from Lake Pontchartrain, Louisiana. Assistant Ernest J. Roscoe, who joined the staff late in the year, continued studies on nonmarine recent and Pleistocene mollusks from the Great Basin area of North America.

DIVISION OF ANATOMY. Curator Davis continued his studies of the comparative anatomy and evolution of the Carnivora. In collaboration with Associate Waldemar Meister he began a study of the placenta and fetal membranes of the hedgehog and continued a study of the fluorescence of hair in rats (genus *Rattus*) in collaboration with Dr. Gerhart Rebell of Colgate Biological Research Division. Curator Davis also prepared the articles "Mammal" and "Cat" for a revision of the *Encyclopaedia Britannica*, and thirty-seven articles on mammals for the new McGraw-Hill *Encyclopedia of Science and Technology*. Research Associate R. M. Strong continued his studies on the anatomy of birds.

PHOTOGRAPH OF
A PRAYING MANTID (ARROW)
IN PANAMA SITTING ON A
LEAFY TWIG WHERE ITS
PROTECTIVE COLORING
CONCEALS IT



THE SAME INSECT
IN OUR COLLECTIONS
MOUNTED ON PIN
AND LABELED

ONE OF THE PIN LABELS
STATES THAT THE INSECT
WAS PHOTOGRAPHED ALIVE
(THE PHOTOGRAPH IS
SHOWN ABOVE)



Accessions—Zoology

New material for study continues to come in at a gratifying rate, as these figures show: mammals—about 1,350 specimens; birds—6,378 specimens; amphibians and reptiles—28,902 specimens; fishes—4,100 specimens; insects—63,959 specimens; mollusks—105,000 specimens; and anatomical material—773 specimens.

We were particularly fortunate in being able to purchase the Dr. E. H. Taylor Collection of reptiles and amphibians of about 25,000 specimens, one of the most important private collections in existence. Very few herpetologists have worked on as large a proportion of the world's fauna in this field as has Dr. Taylor, and this is the collection that he gathered in the course of his work. A large part of the collection is from Mexico and Central America. About 1,000 specimens are from Ceylon, and as many from Siam. Other areas represented include the Philippine Islands, Malaya, Liberia, Brazil, India, and China.

Another outstanding purchase was the Fred Button Collection of mollusks, which contains about 15,000 sets of shells. The collection is particularly strong in shells of western North America and in specimens obtained by exchange from collectors in Australia and in France. Its fine cowrie shells, with those already in our collection, give us 150 of the 168 known species of cowries and make our representation of cowries the most complete in any American museum.

Our entomologists welcomed the purchase of 2,487 minute beetles from New Caledonia and other South Pacific islands, newly collected by Borys Malkin, among which are histerid beetles that will enable Curator Wenzel to elaborate his earlier work on New Caledonia members of this group (and to supplement his forthcoming work on the Micronesian forms) and feather-wing (Ptiliid) beetles that will be useful to Associate Curator Dybas in his work on the Micronesian feather-wings. A further 10,919 feather-wing beetles that were sieved from the soil and leaf litter at localities in 17 states east of the Mississippi River was a gift from Walter Suter and John A. Wagner, of Northwestern University.

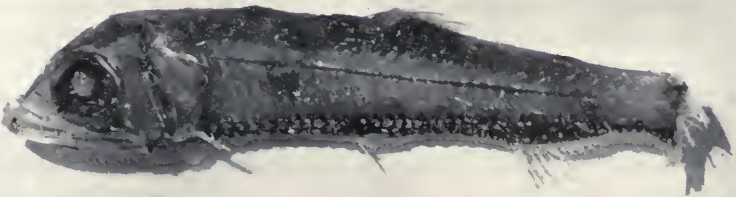
Some other notable accessions from far and near include 690 mammals and 658 birds collected by Dr. Orlando Park and his students at Northwestern University (gift); 859 birds of Egypt from Research Associate Hoogstraal (gift); 900 fishes, including some paratypes of the Pacific, from University of California at Los Angeles (gift); 104 fishes of Borneo from Phui Kong Chin (gift); 581 rove beetles, including types of 52 species, from Research Associate Seevers (gift);



Sonoda megalophthalma Grey

TYPE SPECIMENS OF
THE GENERA OF FISHES THAT
MARION GREY, ASSOCIATE, NAMED FOR
ASSISTANT PEARL SONODA
AND CURATOR LOREN P. WOODS

Woodsia nonsuchae



454 butterflies of North America from John A. Wagner (gift); 2,088 leaf beetles (Cassididae) and 3,717 histerid beetles of Europe and the Old World tropics (purchase); 1,021 long-horn wood-boring beetles and 1,749 other beetles of Brazil (purchase); about 9,500 worldwide mollusks from Curator Solem gift); and about 4,000 choice marine shells from Museum Contributor Dr. Jeanne S. Schwengel (gift).

A gift of 8 paintings done by chimpanzees and 2 by a child came from Mrs. Emily Crane Chadbourne, a Museum Contributor. One picture is the work of the well-known London chimpanzee Congo who was featured in a London show some years ago and whose work has been discussed in several scientific papers, one was done by Betsy of the Baltimore Zoo whose output attracted considerable newspaper attention recently, and six are by a relatively unknown young chimpanzee whom Mrs. Crane found doing commercial work in a Washington department store. These pictures, which vary in size from 12 by 16 inches to 20 by 25 inches and are oils or watercolors on board or paper, are arrangements of bright colors in nonrepresentative designs. These concrete examples of chimpanzee behavior are of considerable interest as samples of what the highest of the great apes can do in a sphere that is usually considered one of the finest expressions of mankind.

Care of the Collections—Zoology

The painstaking preparation required by some animal specimens is nowhere better illustrated than in the cleaning and labeling of skulls and skeletons. A dermestid beetle colony, housed in a bug-proof room on the ground floor, helps with some smaller specimens (the beetles eat the flesh off the bones). Larger mammals (a Péré David deer was the largest single item cleaned this year) may be boiled to soften the flesh. But in any case there are always bits of flesh or tissue to be picked or scraped or washed off. The cleaned skeletons are bleached, and then the bleach is neutralized and the bones are washed. Finally the bones are dried. Skulls and disarticulated skeletons are numbered in India ink, or if the skeleton is kept articulated a numbered tag is attached (the number of course refers to an entry in a catalogue where full details of the place, date, and collector are available). Then the specimen is filed in a vial, box, or cabinet drawer ready for study by someone interested in bats, elephants, snakes, hummingbirds, or fishes, as the case may be. Osteologist Sophie Andris, who does much of this work, prepared 49 skeletons, about 800 skulls, and 10 invertebrates.

Temporary summer assistants, volunteer workers (see page 26), and Antioch College students (Douglas R. G. Roycroft, Miss Aria Ruks, Miss Lise B. Thomsen, and Miss Linda M. Turkel) aided greatly in the routine care of collections, the details associated with curating them, and the incorporation of new material into them.

Rearrangement of the bird and mammal collections in the steel cases purchased last year was continued. Tanner Dominick Villa and Assistant Taxidermist Mario Villa prepared mammal skins for the study collections and cleaned and mothproofed a number of old, large, flat study-skins. Also much time has been spent in search of improved methods of museum taxidermy.

Assistant Marx integrated into the collection the newly purchased Taylor Collection of amphibians and reptiles (see page 72) with the assistance of Miss Janet Wright, who also did considerable work in arranging the pamphlet collection. Assistant Pearl Sonoda not only saw to realcoholing the fish collection but also checked and listed the fish in the large monel fishtanks. Assistant Phyllis Wade carried on routine work for the Division of Anatomy while Curator Davis was on a field trip in Malaya, did much of the routine curating of the collection during the year, and made illustrations.

Assistant August Ziemer inspected and fumigated the insect collections as well as prepared many thousands of specimens for the collections. Research Associate Alex K. Wyatt continued to identify, combine, and integrate our various collections of North American butterflies and moths, Research Associate Seevers spent considerable time curating parts of the Bernhauer Collection of rove beetles, and Associate Curator Dybas saw to the transfer of a large segment of the Brancsik Collection of beetles into the collection.

It was found that, unfortunately, a new shipment of cork used to line insect-storage trays was highly corrosive to insect pins. Investigation by the staff and by chemists of Morningstar-Paisley, Inc. (manufacturers of adhesives) showed that this was caused by a paste used by the bindery firm that covered our cork with flint paper—the paste contained humectants (water-drawing chemicals) and corrosive agents. Specifications for corrosion-free cork, paste, and covering paper have been drawn up by the staff of Morningside-Paisley.

Assistant Roscoe has taken over the final processing of additions to the mollusk collection, which hitherto has been carried on entirely by Curator Emeritus Haas and Curator Solem with the aid of temporary assistants. The half million new specimens received in the past two years have been unpacked and sorted roughly. During the year 12,500 sets of mollusks representing about 115,000 specimens were completely processed and integrated into the collection.

Exhibits—Zoology

The installation early in the year of the case containing the giant Galapagos tortoise and the giant alligator snapping turtle completes the revision of the amphibian and reptile exhibits in Albert W. Harris Hall (Hall 18), which now gives a synopsis of the kinds of amphibians and reptiles and an indication of how and where they live. The revision of this hall by the Division of Amphibians and Reptiles, which was started some years ago, has currently been the responsibility of Artist Joseph B. Krstolich aided by Assistant Taxidermist Peter Anderson, with Taxidermist Carl W. Cotton doing the more recent plastic models.

The synoptic series of birds of the world in Boardman Conover Hall (Hall 21) moved toward completion with the installation of an exhibit showing twenty bird families from swifts, nightjars, and hummingbirds to hornbills. Taxidermist Cotton and Assistant Taxidermist Anderson were responsible for the installation of this exhibit, which was planned by the Division of Birds (Staff Artist E. John Pfiffner advised on design and supplied the paintings). Another exhibit showing bird families from pigeons and parrots to owls is nearly complete.

The exhibit of shells from the Yarrington Collection that was on display as a special feature in Stanley Field Hall last year (see Annual Report 1958, page 26) has been placed in Hall M (Lower Invertebrates), where it occupies a central position as a permanent exhibit.

The centennial of the publication of Charles Darwin's *On the Origin of Species by Means of Natural Selection* was commemorated by the Museum with a special exhibit in Stanley Field Hall from November 1 through the winter months (see page 25). Part 1 of the exhibit was concerned with the 1831-36 round-the-world voyage of H.M.S. *Beagle* on which young Darwin began to formulate his ideas of evolution, Part 2 illustrated the three important sources of evidence for evolution (paleontology, embryology, and comparative anatomy) and Darwin's four propositions supporting his theory of natural selection, Part 3 was devoted to Darwin's main writings, and Parts 4, 5, and 6 gave examples used by Darwin in the *Origin*. Pictorial presentation was supported by books, specimens, facsimilies of pertinent passages from books, and Darwiniana from our collections. The exhibit, which was prepared under direction of the Staff Artist, was planned by Chief Curator Rand and Curator Davis.

Exhibits in progress include a large fish-mobile, an exhibit of living fossil-fishes, and plans and layouts for a revision of our systematic exhibits of mammals.

LIBRARY OF THE MUSEUM

PUBLIC RELATIONS

CO-OPERATION

SCIENTIFIC SOCIETIES

PHOTOGRAPHY AND
ILLUSTRATION

MOTION PICTURES

PUBLICATIONS AND
PRINTING

MAINTENANCE, CONSTRUCTION
AND ENGINEERING



GOLD
PENDANT

COLOMBIA

HEIGHT
9 INCHES

LIBRARY OF THE MUSEUM

Altogether 9,955 items were obtained in the Library during the year by purchase, exchange, and gift. More than 700 items were disposed of by exchange and sale (proceeds from sale of duplicates amounted to more than \$550, a part of which has been applied as credits to our accounts with bookdealers). The following selected titles are typical of the many acquisitions during the year: *Species des Hyménoptères d'Europe et d'Algérie*, 1879-1903 (by Edmond André), seven volumes and one supplement, is the definitive work on the hymenoptera of the western paleoarctic region; *Index Litteraturae Entomologicae*, 1928-29 (by Walther Horn and Sigmund Schenkling), four volumes, includes many additions and corrections to *Bibliotheca Entomologica* (by Hermann August Hagen) and also the works published in 1862 and 1863 to fill the gap between Hagen and *Zoological Record* (v. 1, 1864); and *Nouveau Muséum d'Histoire Naturelle, Volume 1, Règne animal, Classe des quadrupèdes vivipares ou mammifères*, 1806 (by B. E. Manuel) is difficult to obtain and forms an important addition to the collection. The Library benefited from the generosity of the donors listed on pages 124 and 125.

A resignation and the absence of a staff member in military service have limited the progress during the year of cataloguing and classifying, and a backlog of unprocessed material has accumulated. As a temporary measure each uncatalogued title is represented by an author and a title entry in the main card catalogue and uncatalogued serials are listed in a separate file. In a large and complex library of exclusively scientific and technical literature full attention of one cataloguer is required for day-to-day maintenance of the card catalogue. During the first half of the year the presence of an additional cataloguer enabled the division to make good progress in the number of volumes processed, and all materials received for which printed Library of Congress cards are available were catalogued, classified, and sent to the shelves of the general and departmental libraries. Original cataloguing was done for many monographs and serial publications, including an accumulation in the Russian and Polish languages. Analytics have been made for all monographs appearing in serial publications.

As a result of increased space in the Anthropology Library, volumes temporarily shelved in the General Library were transferred there and catalogue cards provided. The Laufer Collection of works in occidental languages was moved to the East Asia Library in the Department of Anthropology with covering catalogue cards. The East Asia catalogue now contains cards for 728 completely catalogued

titles (comprising thousands of volumes) and a temporary file of 893 titles (also comprising thousands of volumes). A considerable number of books and periodicals on the Far East that have not been reclassified remain in the General Library.

Curator Kenneth Starr and Dr. Hoshien Tchen (both of the Department of Anthropology) continued their program of adding to the East Asia Library specialized bibliographic materials of two types in both oriental and occidental languages: (1) general works on anthropology and culture-history of China and other regions of East Asia and (2) technical books on Chinese rubbings and the stone and bronze objects from which they are taken. During the year Dr. Tchen catalogued 60 titles comprising some 450 volumes.

Because of its very nature a research library must grow. The physical expansion of the Botany Library is a problem that will need solution within the next few years. The overcrowded section housing materials classified under the Library of Congress system has been temporarily adjusted by a general shifting of all the volumes in the Botany Library and removal to the General Library of material not in regular use by the Department of Botany. This strenuous and painstaking work was done by members of the Botany staff.

Because many of the titles acquired by the Museum Library in its specialized fields are not reported by other libraries, this Library during the past year has initiated the policy of contributing a copy of each original catalogue card for books of 1956 and later imprints to the National Union Catalog for inclusion in *Library of Congress Catalog—Books; Authors*, in addition to reporting all entries of earlier imprint date to the National Union Catalog. Locations of all copies of each title reported are indicated here, and this service is particularly important for works that are held uniquely by a single library. Analytics for monographs in series that are not analyzed by the Library of Congress also were reported. Altogether 546 cards were copied and submitted during the year, including many in Chinese and other oriental languages.

After the Rare Book Room was renovated and rearranged in 1958, a complete card file for all volumes in this collection was made and filed in the room. This card file contains 308 entries

A total of 10,559 cards was made for the card catalogue, representing 1,429 titles and 4,138 volumes. Additionally, 1,212 cards were made for the Authorities File to be used as reference by the cataloguing staff. Altogether 1,078 monographs were analyzed. Translations into English totaled 310 (the task of translating correspondence and printed material for members of the Museum staff is shared by the Associate Librarian with the Librarian and Reference Librarian).

The Library received an increased number of requests for materials on biological science and anthropology, especially on scientific developments in countries behind the Iron Curtain. This year, more than in the past, visiting scholars used the Museum Library. A marked increase was noted in the use of our facilities by university students, many of whom were doing graduate work, and by others whose projects were of a scholarly nature. Miss Eugenia Bernoff, Reference Librarian, is especially capable in helping readers to find what they are seeking and in giving accurate information over the telephone. Her ability to work with foreign languages is especially valuable in these services. More than 2,170 reference inquiries were handled during the past year and more than 2,000 volumes were used in the General Reading Room by visitors (a record of volumes used by staff members is not kept). Miss Louise Friedal and Miss Hermine F. Tworokov, Antioch College students, assisted in clerical work.

Among arrangements for getting materials necessary for an adequate research library is the exchange system (see page 99). Continued effort is made by our Library to acquire systematically, through exchange on a worldwide scale, currently issued publications of learned societies, academies, and institutes, and our network of exchange sources now extends into regions where research has been limited or stopped until recent years. Active exchanges of publications total 991 in comparison with 401 paid subscriptions. A systematic review of periodical subscriptions was made for transfer, wherever possible, to the exchange list, and some economies were achieved thereby.

The transfer of a large part of the map collection from storage crates to the new map cases in the General Reading Room was completed during the year. Some 38,000 maps were sorted, filed, and arranged in systematic order under continent, country, locality, and city by Chih-wei Pan, an assistant, and a card file has been made.

The Library continued to make materials available to other libraries through interlibrary loans. In return we enjoyed the benefits of this important service that enables libraries to supplement their own resources with those of other institutions. A total of 320 books was borrowed and lent. The use of photostats and microfilms increased notably during the year.

The Library's present rate of binding is keeping pace with current accretions of unbound materials and is reducing the arrearage of materials in need of rebinding and repair. Altogether 1,158 volumes were prepared for binding during the year and numerous pamphlets were placed in binders. Repairs were made in the Library on 901 volumes at a saving in commercial-binding costs of approximately \$2,500, and 3,338 volumes were lettered with the electric stylus.

CO-OPERATION WITH OTHER INSTITUTIONS

In co-operation with the Department of Anthropology of the University of Chicago the Museum presented in November an illustrated lecture on "The Art of Western New Guinea and Its Cultural Background" by Dr. Simon Kooijman, Curator of Rijksmuseum voor Volkenkunde in Leiden, who, while in the United States, also lectured at the Museum of Primitive Art in New York and at Harvard University (when in Chicago he studied the extensive New Guinea collections of ethnological and art specimens in the Museum's Pacific Science Laboratory).

The course in museology, which covers all details of curatorial duties in a museum, was continued at the Museum by our anthropologists in co-operation with the Department of Anthropology of the University of Chicago. Phillip H. Lewis, Assistant Curator of Primitive Art, taught a six-week course in primitive art in the exhibition galleries of the Museum during July and August for students from the School of the Art Institute of Chicago and, in April, gave a gallery lecture for a group of students brought to the Museum from Manteno (Illinois) State Hospital.

Dr. Kenneth Starr, Curator of Asiatic Archaeology and Ethnology, gave a lecture at the University of Michigan on Chinese rubbings and demonstrated the art on an educational program sponsored by the television center of the University of Michigan. Dr. John B. Rinaldo, Assistant Curator of Archaeology, spoke at a meeting of the archaeology society at the University of Wisconsin, Assistant Curator Lewis lectured at Northwestern University and at the School of the Art Institute of Chicago, and Dr. Roland W. Force, Curator of Oceanic Archaeology and Ethnology, spoke at the Borg-Warner Research Center of the Scientific Research Society of America. Dr. Donald Collier, Curator of South American Archaeology and Ethnology, George I. Quimby, Curator of North American Archaeology and Ethnology, and Curator Force taught courses at the University of Chicago. Curator Force, who was appointed to a committee to assist the National Planning Board of Century 21 Exposition to be held in Seattle in 1962, attended committee meetings in Philadelphia and New York City. Dr. Paul S. Martin, Chief Curator of Anthropology, and Assistant Curator Rinaldo took part in a seminar on ceramics at the Museum of Northern Arizona.

Dr. Theodor Just, Chief Curator of Botany, arranged for a seminar to be given in the Department of Biology at Northwestern University by Dr. A. J. Kostermans, professor of botany at the University of Indonesia, and introduced Dr. Kostermans. Chief

Curator Just addressed the Third Annual Conference of Midwest College Biology Teachers held at the University of Notre Dame. Dr. C. Earle Smith, Jr., Associate Curator of Vascular Plants, spoke before a biology seminar at Northwestern University.

The graduate course in vertebrate paleontology of the University of Chicago was held in the Museum as usual by Dr. Everett C. Olson, Professor of Vertebrate Paleontology at the University and Research Associate on the Museum's staff. In December Professor Ralph Johnson of the University of Chicago brought his class in invertebrate paleontology to the Museum for a lecture by Dr. Rainer Zangerl, Curator of Fossil Reptiles, and Dr. Eugene S. Richardson, Jr., Curator of Fossil Invertebrates, on paleoecological principles as illustrated in the Mecca project (see page 59).

Curator Zangerl lectured on two occasions to classes in zoology that visited the Museum from Indiana University and addressed a zoology seminar at Indiana University on the paleoecology of the Mecca shale in Parke County, Indiana. Curator Richardson spoke on the Mecca project before the Northern (Illinois) Biology Teachers Association. Albert W. Forslev, Associate Curator of Mineralogy, aided several times in identifying physical and chemical evidence for the Crime Detection Laboratory of the Chicago Police Department. The Museum supplied samples of coals and peats to the Argonne National Laboratory (Lemont, Illinois) for use in a study of radioactive mineral content of natural hydrocarbons.

Rupert L. Wenzel, Curator of Insects, and Alex K. Wyatt, Research Associate in the Division of Insects, are serving as co-operating specialists in the insect-detection program of the United States Department of Agriculture (Curator Wenzel is a specialist on classification of histerid beetles and of flies parasitic on bats, and Research Associate Wyatt is a specialist on Heliothine moths). Curator Wenzel continued to co-operate with the Board of Commissioners of Agriculture and Forestry of the State of Hawaii in providing identifications of the histerid beetles that are being introduced into Hawaii from various parts of the world in an effort to control the horn fly, a pest that is responsible for greatly reduced production in the dairy industry. Curator Wenzel has been appointed a Research Associate in the Department of Biology at Northwestern University. D. Dwight Davis, Curator of Vertebrate Anatomy, continued as Lecturer in the Department of Zoology at the University of Chicago.

Classes in botany, paleobotany, systematic botany, and biology came to visit the Museum's herbaria from the University of Chicago, University of Illinois, State University of Iowa, Loyola University,



CURATOR DENISON
IDENTIFIES A COLLECTION
OF FOSSIL FISHES
FROM MONTE BOLCA IN
NORTHERN ITALY

Northwestern University, and Western Michigan University. A class in field zoology from the University of Notre Dame visited the Division of Amphibians and Reptiles, a biology class from the University of Illinois visited the Division of Fishes, and classes in field biology from Northwestern University and Roosevelt University visited the Division of Insects.

Among other universities and colleges that used the facilities of the Museum were Chicago Teachers College, Illinois Institute of Technology, De Paul University, George Williams College, McMaster University (Canada), Morton Junior College, North Park College, and Wheaton College. Supervised classes from art schools continued to use the Museum exhibits as a part of their regular classroom work in sketching, painting, and modeling, and results of this work from classes of the School of the Art Institute of Chicago were placed on special exhibition in the Museum in May (see page 25).

The Chicago Area Science Fair (sponsored by the Chicago Teachers Science Association), a show in which students of grades 6 through 12 from all schools within a 35-mile radius of Chicago are eligible, was held in the Museum on a Saturday in May. Elmhurst (Illinois) Teachers Institute met in the Museum in September to acquaint its members with the programs of the Museum (more than a hundred teachers were present). Facilities at the Museum for meetings were used during the year by various organizations working in fields related to the scope of the Museum, among them the Illinois Audubon Society, Illinois Orchid Society, Kennecott Club, and Nature Camera Club. Under the co-operative plan adopted in 1946 by this Museum and Antioch College (Yellow Springs, Ohio) fifteen young men and women were employed in 1959 by the Museum.

Among visitors in the Department of Anthropology during the year were Dr. Charles O. Betscholt and Dr. Victor F. Lenzer, University of California at Los Angeles; Barone Professor Alberto Carlos Blanc (Direttore Dell' Istituto di Paletnologia), Dell' Universita (Rome); Dr. F. H. Bordes, University of Bordeaux (France); Dr. Stephen Borhegyi, Dr. Robert Ritzenthaler, Lee Parsons, and William Hurley, Milwaukee Museum; Dr. Edwin H. Bryan, Jr., Bernice P. Bishop Museum; Dr. Schuyler Cammann, University of Pennsylvania; Dr. Daniel J. Crowley, University of Notre Dame; Philip Dedrick, Rockford College; Dr. R. A. Deddrick, Fiji Museum (Fiji Islands); Joseph J. Dobrich, Washington, D.C.; Emilio Estrada, Guayaquil, Ecuador; Dr. Henry Field, Peabody Museum; Dr. Douglas Fraser, Robert K. Saxon, and Mrs. Carol M. Suchinsky, Columbia University; Dr. Gordon D. Gibson and Dr. S. H. Riesen-berg, Smithsonian Institution; Professor William Godfrey and Pro-

fessor Andrew Whiteford, Beloit College; Dr. James B. Griffin (Director), Museum of Anthropology (University of Michigan); Dr. Jean Guiart, University of Paris;

Professor S. Howard Hansford, University of London; Sir Julian Huxley and Francis Huxley, London; Professor Kao Ch'ü-hsün, Taiwan National University; Dr. A. L. Kroeber, Berkeley, California; Dr. L. S. B. Leakey, Nairobi, Kenya; Dr. Hubert W. Lechie, American University; Father Edwin McManus, S. J. Trust Territory of the Pacific Islands; Miss Alice Marriott, University of Oklahoma; Ronald J. Mason, Neville Museum; Sister Marie Jose di Mendonca, Lisbon, Portugal; Dr. Cornelius Osgood, Yale University; Myron O'Higgins, Museum of Primitive Art; Dr. Satya Prokash, Jaipur, India; Dr. Carlos Samayoa, Institute for Anthropology and History (Guatemala); Dr. Karl Schlesier, Dusseldorf, Germany; and Dr. Antonio Tejeda, Jr. (Director), National Museum of Archaeology and Ethnology (Guatemala).

Visiting botanists included Avadh Agarwal, Lucknow, India; Brother Alfred, De La Salle College (Manila); Rev. Edward Akso-maites, Putnam, Connecticut; Dr. C. A. Arnold and Dr. R. H. Wagner, Jr., University of Michigan; F. K. Ballard, United States Customs Laboratory (Chicago); Professor Harriette V. Bartoo, Western Michigan University; Dr. J. W. Baxter, University of Wisconsin Extension; Dr. E. O. Beal, North Carolina State College; Dr. C. R. Bell, University of North Carolina; Professor G. R. Bernard, Dr. R. E. Gordon, and Rev. E. C. Resconich, University of Notre Dame; Dr. A. L. Bernardi, University of the Andes (Venezuela); Dr. A. S. Boughey, University College of Rhodesia and Nyasaland; Dr. Max Britton, Office of Naval Research (Washington, D.C.); Miss H. Francia Chisaki, Dr. Wayne Fry, Dr. Albert Herre, and Dr. Mildred Mathias, University of California; Dr. Wm. B. Cooke, Taft Sanitary Engineering Center;

Dr. and Mrs. W. A. Daily, Indianapolis; M. P. DeVos, University of Stellenbosch (South Africa); Dr. M. J. Dorsey, Mr. and Mrs. R. Mohlenbrock, and Dr. Wilson N. Stewart, University of Illinois (Urbana); H. V. Dunkle, Galesburg, Illinois; Dr. John D. Dwyer, St. Louis University; Dr. R. E. Edgren, G. D. Searle and Company (Skokie, Illinois); Dr. and Mrs. Gunnar Erdtman, Laboratory of Palynology (Stockholm); Dr. H. Fabris and Dr. S. A. Guarrera, Museo de la Plata (Argentina); M. G. Fenwick and J. H. Grosbogs, Northern Illinois University; Dr. Margaret Fulford and Miss Jane Taylor, University of Cincinnati; Dr. John Funkhauser, Tulsa, Oklahoma; Dr. G. W. Gillett, Miss Ann Waterman, and Clifford Wetmore, Michigan State University; Dr. L. J. Grambast, University of Paris;

Dr. Charles Heimsch, Miami University (Ohio); Dr. C. B. Heiser, Jr., Indiana University; A. J. Hendricks, Southern Illinois University; Professor R. L. Hulbary, State University of Iowa; Dr. Juan Hunziker, Buenos Aires, Argentina; Dr. Hugh Iltis, Dennis Knight, Dr. Jonathan Sauer, and P. F. Stickney, University of Wisconsin; R. O. Kapp, Alma, Alma College; Dr. David D. Keck, National Science Foundation (Washington, D. C.); Hari Kishore, Simla, India; Dr. R. M. Kosanke, Illinois Geological Survey; Dr. B. F. Kukachka, Forest Products Laboratory (Wisconsin); Professor R. J. Kuster, Valparaiso University; Dr. Ida Langman, University of Pennsylvania; Dr. G. A. Leisman, Kansas State Teachers College; Dr. Harlan Lewis, University of California at Los Angeles; Robert Long, University of Massachusetts; Dr. T. G. Mahabale, University of Poona (India); Dr. P. N. Mehra, Panjab University (India); Dr. Eugenia Navas, University of Chile; Bernard Nebel, Earlham College; Harold Nogle, Port Arthur, Texas; Dr. Frederick Pannier, Universidad Central (Venezuela); H. W. Pfeifer and Dr. R. E. Woodson, Missouri Botanical Garden; Dr. R. W. Pohl, Iowa State College; Dr. R. P. Quinn, Abbott Laboratories (Chicago); Dr. N. W. Radforth, McMaster University; Dr. Dillwyn Rogers, Augustana College; Dr. Velva Rudd, United States National Museum; Dr. E. D. Rudolph, Wellesley College;

Dr. Linna Azhyadeè Salom, San José, Costa Rica; Rolf Schäfer, University of Göttingen (West Germany); Roland Schoenike, University of Minnesota; A. Schoenwetter, University of Arizona; Dr. J. M. Schopf, United States Geological Survey (Ohio State University); Dr. R. E. Schultes, Harvard University; Dr. Olof Selling, Naturhistoriska Riksmuseum (Stockholm); David G. Sharpe, Putnam, Connecticut; Rev. Urban J. Siegrist, St. Joseph College; Dr. Anton Slysh, Syracuse University; Tom Soderstrom, Yale University; Allen Stevenson, Hunt Library (Pittsburgh); Dr. K. R. Surange, Sahni Institute of Paleobotany (Lucknow, India); Dr. A. F. Szcza-winski, Museum of Natural History (Vancouver); Miss Betty Venrick, Pomona College; Dante Ventresca, Marion College; Dr. Grady L. Webster, Purdue University; Dr. Louis O. Williams, Plant Industry Station (Beltsville, Maryland); Archie F. Wilson, Summit, New Jersey; and Dr. D. O. Wolfenbarger, University of Florida.

Visiting geologists included Dr. Walter Auffenberg, University of Florida; Dr. Robert S. Bader, University of Illinois (Urbana); Dr. Charles Bechtol, University of California at Los Angeles; Craig C. Black, Dr. George Gaylord Simpson, and Dr. Ernest E. Williams, Museum of Comparative Zoology; H. J. Champagne, National Museum of Canada (Ottawa); Dr. John Clark, South Dakota School

of Mines and Technology; William A. Clemens and Richard Estes, University of California; Dr. Gordon Y. Craig, University of Edinburgh (Scotland); Robert C. Feuer, University of Michigan; Dr. Kurt Frederiksen, Geological Survey of Sweden (Stockholm);

Donald J. Herold, Davenport (Iowa) Public Museum; Dr. Claude Hibbard, University of Michigan; Dr. Marie L. Hopkins, Idaho State College; Dr. Nicholas Hotton III, United States National Museum; Dr. L. S. B. Leakey, Coryndon Memorial Museum (Nairobi, Kenya); Dr. Ernest Lundelius, Jr., University of Texas; Mrs. Doris Macnaughton, McGill University (Montreal); John H. Ostrom, Beloit College; Roy Reinhart, Miami University (Ohio); Howard Sanders, Woods Hole Oceanographic Institute; Dr. Robert E. Sloan, University of Minnesota; Dr. Thompson M. Stout, University of Nebraska; Dr. Georges Vandebroek, University de Louvaine (Belgium); and Dr. T. Stanley Westoll, University of Durham (England).

Visiting zoologists included Dr. John W. Aldrich and Dr. Daniel M. Cohen, United States Fish and Wildlife Service (Washington, D.C.); Donald H. Baeppler, Robert E. Elbel, Dr. Cluff Hopla, and W. H. McCarley, University of Oklahoma; George Barker, Mt. Pleasant, South Carolina; Dr. Charles O. Bechtol, University of California at Los Angeles; Dr. Edward Becker, Dr. Henry Howden, and Dr. B. V. Peterson, Canada Department of Agriculture; Dr. William H. Behle, University of Utah; Dr. S. Stillman Berry, Redlands, California; Dr. Argentino Bonnetto, Buenos Aires; Professor José I. Borrero, Bogotá, Colombia; Miss Margaret G. Bradbury, Hopkins Marine Station; John Burns, William Z. Lidicker, Jr., and Dr. Frank A. Pitelka, University of California; Dr. Joseph Camin, Dr. William Duellman, and Carl Rettenmeyer, University of Kansas; George Campbell, Detroit; Dr. Nell B. Causey, University of Arkansas;

Jorgen Dahl, Department of Fisheries, Charlottenlund, Denmark; Dr. Rezneat M. Darnell, Marquette University; Miss Mercedes Delfinado, Manila; Dr. Clarence Dineen, St. Mary's College; Robert C. Feuer, Dr. Theodore Hubbell, Douglas Robinson, and Dr. Robert W. Storer, University of Michigan; Dr. Robert L. Fleming, Kathmandu, Nepal; W. I. Follett, California Academy of Sciences; Dr. M. J. Fouquette, Dr. Coleman Goin, and Dr. Rodger D. Mitchell, University of Florida; Dr. Herbert Friedmann, United States National Museum; José M. Gallardo, Museo Nacional (Buenos Aires); Dr. Carl Gans, University of Buffalo; Arnold Gluge, University of Southern California; Dr. Robert Graves, Flint (Michigan) Junior College; Dr. Georg Haas and Professor Oskar Theodor, Hebrew



"TREE FINDER" PROGRAM FOR CAMP FIRE GIRL DAY

ASSISTANT ZIEMER HELPS WITH BOY SCOUT HOBBY DAY



University (Jerusalem); C. F. Harbison, San Diego Museum of Natural History; Dr. Carl L. Hubbs, Scripps Institution of Oceanography; Dr. D. K. Kevan, MacDonald University (Montreal); Dr. David Kistner, Chico (California) State College; Dr. Karl Krekeler, Valparaiso University; Dr. Boonsong Lekagul, Thailand; Dr. James List, Ball State Teachers College;

H. A. MacEwan, Battle Creek, Michigan; Dr. Borys Malkin, University of Minnesota; Mr. and Mrs. N. B. Marshall, British Museum (Natural History); Dr. William V. Mayer, Wayne University; Dr. Ernst Mayr, Museum of Comparative Zoology; Dr. Charles A. McLaughlin, Los Angeles County Museum; Dr. T. Michaud, Carroll College; Dr. William Milstead, University of Kansas City; Dr. Edgardo Mondolfi, National Museum (Venezuela); Captain Muñoz (Administrator), Seal Islands, Uruguay; Dr. Oscar T. Owre, University of Miami (Florida); Luis B. Peña, Santiago, Chile; Father Francisco S. Pereira, São Paulo, Brazil; Dr. Randolph L. Peterson, Royal Ontario Museum of Zoology; Dr. Cornelius B. Philip, Rocky Mountain Laboratory; Dr. Holgar Poulsen, Copenhagen Zoo;

Stanley Rand, Harvard University; Dr. Gerbert Rebell, Colgate Biological Research Division; Dr. Frederick Rindge, American Museum of Natural History; I. A. Ronquillo, Manila; Dr. Jerome Rozen, Ohio State University; Dr. Hans Schneider, University of Tübingen (Germany); Gilberto Silva-Taboada, Cuban Bat Guano Corporation (Havana); Dr. R. H. N. Smithers, National Museum at Bulawayo (Southern Rhodesia); Miss Angela Spadaro, Charleston Museum; Dr. Victor G. Springer, Florida State Board of Conservation; Ralph Stark, Lebanon, Indiana; Dr. G. M. Stecher, Cleveland; Dr. Harrison M. Tietz, University of Pennsylvania; Dr. Enrico Tortonese, Museo Civico di Storia Naturale (Genoa); Dr. Raul Vaz-Ferreira, University of Uruguay; Dr. Howard Weems and Robert Woodruff, Florida State Plant Board; Dr. N. R. Whitney, Rapid City, South Dakota; and Dr. Telford Work, Rockefeller Foundation Virus Laboratories (New York).

In addition, we had, of course, many visitors from the Chicago area to all scientific departments. Among these were members of the faculties of local educational institutions, including Northwestern University, The University of Chicago, Chicago Teachers College, Loyola University, Roosevelt University, and Illinois Institute of Technology. Sir Charles Darwin, of Great Britain, also visited the Museum during the Darwin Centennial Celebration of the publication of his grandfather's famed book *The Origin of Species* (see pages 22 and 92).

ACTIVITIES OF STAFF MEMBERS IN SCIENTIFIC AND PROFESSIONAL SOCIETIES

Dr. Paul S. Martin, Chief Curator of Anthropology, Dr. Donald Collier, Curator of South American Archaeology and Ethnology, and George I. Quimby, Curator of North American Archaeology and Ethnology, attended the annual meeting in Salt Lake City of the Society for American Archaeology and the annual meeting in Mexico City of the American Anthropological Association. Allen S. Liss, Custodian of Collections, attended the meeting in Carbondale, Illinois, of the Midwest Archaeological Conference and the meeting in Urbana of the Illinois Archaeological Survey, of which he is a member of the board of directors.

Dr. Theodor Just, Chief Curator of Botany, was host to a meeting in the Museum in February to plan the program for the Ninth International Botanical Congress that was held later in the year in Montreal. At the Congress he presented a paper at a meeting of the Paleobotanical Section and participated in meetings of the International Committee on Paleobotanical Nomenclature, of which he is a member. Local arrangements for the annual meeting of the Conference of Biological Editors, which was held in the Library of the Museum in April, were made by Chief Curator Just and Miss Lillian A. Ross, Associate Editor of Scientific Publications. Dr. Just, who continues to serve as chairman of the committee for editorial policy for the Conference of Biological Editors, was elected vice-president. He continued as a member of the International Committee on Paleobotanical Nomenclature and as a member of the program committee for the International Botanical Congress.

Dr. Robert H. Denison, Curator of Fossil Fishes, Dr. Rainer Zangerl, Curator of Fossil Reptiles, and William D. Turnbull, Assistant Curator of Fossil Mammals, attended the meetings in Pittsburgh of the Society of Vertebrate Paleontology, where Curator Denison was elected secretary-treasurer. Curator Zangerl attended the meeting in Pittsburgh of the Board of Directors of the American Geological Institute. Albert W. Forslev, Associate Curator of Mineralogy, attended the meetings in Pittsburgh of the Geological Society of America and was appointed to a committee of the Mineralogical Society of America that is engaged in compiling a list of the outstanding mineral collections in the United States.

Philip Hershkovitz, Curator of Mammals, Dr. Karl Koopman, Assistant Curator of Mammals, and Miss Sophie Andris, Osteologist, attended the meeting in Washington, D.C., of the American Society of Mammalogists. Dr. Austin L. Rand, Chief Curator

of Zoology, and Emmet R. Blake, Curator of Birds, attended meetings of the American Ornithologists' Union in Regina, Saskatchewan. Loren P. Woods, Curator of Fishes, attended meetings of the American Society of Ichthyologists and Herpetologists in San Diego.

Rupert L. Wenzel, Curator of Insects, attended meetings in Columbus of the North Central Branch of the Entomological Society of America and joint meetings in Detroit of the Entomological Society of America and the Entomological Society of Canada and was elected to the standing committee on entomological nomenclature. Dr. Fritz Haas, Curator Emeritus of Lower Invertebrates, and Dr. Alan Solem, Curator, attended the meeting in Philadelphia of the American Malacological Union, and Curator Solem, who was elected counselor-at-large at the Philadelphia meeting, spoke at the meeting in Redlands, California, of the Pacific Division of the Union. D. Dwight Davis, Curator of Vertebrate Anatomy, attended meetings in Philadelphia of the American Institute of Biological Sciences and continued as a trustee of the American Society of Mammalogists, which met in Washington, D.C.

Members of the Museum's staff attended the annual meetings of the Society for the Study of Evolution (in November) and of the American Association for the Advancement of Science (in December), which were held in Chicago, and the Darwin Centennial Celebration (see page 22) at the University of Chicago (in November). Chief Curator Just attended the Darwin Centennial Celebration as official representative of the Museum and of the Botanical Society of America. Dr. Eugene S. Richardson, Jr., Curator of Fossil Invertebrates, was official delegate from the Society of Vertebrate Paleontology to the meetings of the Society for the Study of Evolution and to the Darwin Centennial Celebration. Dr. Roland W. Force, Curator of Oceanic Archaeology and Ethnology, and Curator Quimby were elected Fellows of the American Association for the Advancement of Science.

Mrs. Meta P. Howell, Librarian, attended the meetings of the American Library Association in Washington, D.C. Mrs. M. Eileen Rocourt, Associate Librarian, was elected chairman of the Museum Division of Special Libraries Association at its annual meeting, having served as vice-chairman. Mrs. Rocourt represented the Museum Division at the Advisory Council meetings of the Special Libraries Association in Highland Park, Illinois, and during the year attended monthly meetings of the Illinois chapter of the Association. The Librarian and Associate Librarian attended sessions of the Mid-Winter Conference of the American Library Association in Chicago.



HONORING THE CENTENNIAL OF
THE PUBLICATION
OF CHARLES DARWIN'S
"THE ORIGIN OF SPECIES"

SPECIAL EXHIBIT
IN STANLEY FIELD HALL

Dr. Clifford C. Gregg, Director of the Museum, addressed the International Council of Museums in Stockholm in July and was a member of The Natural History Museums' Committee of fifteen that met at Oslo in June. E. Leland Webber, Executive Assistant, and Miss Miriam Wood, Chief of Raymond Foundation, represented the Museum at the annual meeting in Toledo of the Midwest Conference of Museums of the American Association of Museums. Miss Wood, who was chairman of the program and moderator of the session on education in museums, was elected president of the Midwest Conference of Museums.

In connection with his duties as associate editor of the new worldwide anthropological journal *Current Anthropology*, Curator Force received a grant from the Wenner-Gren Foundation for Anthropological Research to aid in exploration of problems of communication among anthropologists the world over. Dr. Robert F. Inger, Curator of Amphibians and Reptiles, was elected herpetological editor of *Copeia*, Assistant Curator Rinaldo was appointed to the editorial staff of *Archives of Archaeology*, and Curator Wenzel was appointed to the advisory board of the *Encyclopaedia Britannica* to serve as advisor in the field of entomology.

Members of our staff who continued to serve in various capacities on editorial boards of scientific journals include Curator Collier, *American Antiquity*; Curator Davis, *Copeia*; Curator Inger, *Evolution*; Chief Curator Just, *Lloydia* (editor); Mrs. Rocourt, *Bulletin* [of Museum Division of Special Libraries Association]; Dr. John W. Thieret, Curator of Economic Botany, *Economic Botany*; Assistant Curator Turnbull, *Säugertierkundliche Mitteilungen* (Stuttgart, Germany) and *Society of Vertebrate Paleontology News Bulletin*; and Curator Woods, *The American Midland Naturalist*.

Several members of the Museum's scientific staff contribute reviews and articles to various learned journals or write books on subjects within the Museum's fields of interest and research. A bibliography of some of this material in 1959 is on page 104.

PUBLIC RELATIONS

The Museum became the focus of an extraordinary amount of publicity in the press, on television, in radio, and in motion-picture newsreels because of its active participation in the Festival of the Americas that was held during the summer in connection with the Pan American Games to which Chicago was host. The Museum's contribution to the Festival was an extremely noteworthy special exhibit "Indian Art of the Americas" (see pages 23 and 25), which received unusual recognition and was acclaimed by the art critics of Chicago newspapers as an outstanding showing of primitive art. Stories and pictures of this exhibit and of objects in it continued for several weeks.

Outstanding presentations during the year included a well-illustrated three-page feature-story on the Museum's archaeological expedition to the Southwest and on dinosaurs in issues of *Midwest* (Sunday rotogravure magazine of the *Chicago Sun-Times*), a page of rotogravure pictures of exhibits of Mexican art in *Weekend* (magazine of the *Chicago Daily News*), pages of drawings by children in classes of the School of the Art Institute of Chicago working in this Museum (see page 85), and a page "Day at the Museum" in *Chicago's American*. The *Chicago Tribune* published an impressive photograph of the Museum's new exterior night lighting, which began in June (see page 107).

Museum news and pictures were circulated nationally and internationally on a larger scale than in previous years through co-operation of such distributing agencies as the Associated Press and United Press-International (there is reason to believe that such notice influences many visitors to Chicago to include the Museum in their sight-seeing itineraries). Locally, in addition to the metropolitan newspapers, the Museum received publicity in neighborhood weeklies and semiweeklies, foreign-language newspapers, and newspapers of suburbs and nearby cities. The number of news releases for the year was 250. Advance proofs of the Museum's monthly *Bulletin* are regularly supplied to the press, and supplemental publicity was received by articles and pictures reprinted from this periodical, which is published by the Museum primarily for its Members.

Radio and television stations and networks generously contributed free publicity to Museum events in spot announcements and scheduled programs. Grateful acknowledgment of this co-operation is made to the American Broadcasting Company, Columbia Broadcasting System, and National Broadcasting Company as well as to the independent local stations throughout the Chicago area. The Museum has benefited in particular from almost daily announce-

ments on two stations that direct their appeal to people interested in cultural and educational activities—the noncommercial television station WTTW (Channel 11) and FM radio station WFMT, which also published in its monthly *Fine Arts Guide* extensive series of photographs of Museum exhibits.

The Chicago and North Western Railway, Chicago Transit Authority, and Illinois Central System continued to display without charge in their local stations placards advertising lectures and other Museum events. Museum notices appeared in *Headline Events in Chicago* (published monthly by the Chicago Association of Commerce and Industry), *Chicago Exhibitions Calendar* (published quarterly by the Adult Education Council), and *This Week in Chicago* (distributed by hotels and organizations concerned with tourists).

MOTION PICTURES

The twice-a-year general inspection of all film material in the Film Library, which includes cleaning and repairing, was completed for the year and all film subjects were catalogued and accessioned. The Film Library now numbers 101 complete productions, besides thousands of feet of color and black-and-white film in the stock-footage library on various subjects of natural history. During the year many films were examined for material that could be incorporated into films now in use, and all storage files were relabeled. Both new and replacement titles were photographed, and damaged sections of films were printed and replaced.

Toward the close of the year all photography for the Museum's new film production was completed. Laboratory work, editing, and preparation of script are now in progress and the film will be ready for public showing during the coming year. This film will supplant the present film on the Museum's various activities, "Through These Doors," which was in continuous use throughout the year on a free-loan basis as an educational service of the Museum to all requesting organizations, schools, and colleges. It has been impossible to keep accurate count of individual viewers, but it is conservative to say that "Through These Doors" has been seen by many thousands in the ten years that it has been in use.

Requests are received from time to time for the loan of films taken in various parts of the world during Museum expeditions. This material, which shows habitats, people, and animal life, has rare and unusual value because our film record is, in many instances, the only one in existence.



MAMMAL SKULLS
BEING CLEANED

CAFETERIA AND LUNCHROOM

The total volume of business in the cafeteria and lunchroom increased slightly during the year, reaching a figure in excess of \$192,000. During the summer months the cafeteria remained open on Wednesday and Friday evenings of Grant Park concerts, and many visitors took advantage of the opportunity to have dinner at the Museum before attending the concerts (see page 21). In order to accommodate school groups better, the picnic room was entirely remodeled, with special attention to improved airconditioning. Murals by Miss Marion Pahl, Staff Illustrator, have added greatly to the attractiveness of the room (see below).

PHOTOGRAPHY AND ILLUSTRATION

The Division of Photography attained its usual high standards of excellence in photographing subjects of all descriptions. The ability to reproduce the fine details of texture in wood, mineral, and textile specimens is of great importance because the photographs are the basis of photoengravings for Museum publications or become a part of the permanent records of the Museum. John Bayalis and Homer V. Holdren succeeded admirably in handling even the most difficult matters. During the year they completed a total of 24,661 negatives, prints, kodachromes, lantern slides, and transparencies. The record keeping, ably done by Miss Mary Creed, included numbering negatives and prints, replacing and relabeling torn negative jackets, and other routine tasks that are indispensable to the care and management of a large photographic library.

E. John Piffner, Staff Artist, and Miss Marion Pahl, Staff Illustrator, accomplished many major assignments. Outstanding are the picnic-room murals and several posters by Miss Pahl, and less spectacular but of highest order of importance are approximately 100 drawings for scientific publications and 9 drawings for the Museum Stories of Raymond Foundation. A large part of Artist Piffner's time was taken up with planning exhibits for various departments of the Museum, which included work for the proposed Hall of Mammals in the Department of Zoology and the design for the large pictorial map of Indonesia for the Department of Anthropology. The close co-operation of the Staff Artist and Staff Illustrator with the artists and preparators of the Museum departments in order to produce in record time special material for the Darwin and other exhibits is particularly gratifying.

THE BOOK SHOP

Operation of The Book Shop continued at a high level during the year. Total sales (including books, souvenirs, and educational toys) amounted to \$188,615.59, a decrease of about \$8,000 from the figure for 1958. The decrease was entirely in sales by mail. Over-the-counter sales, however, increased 10 per cent over those of 1958. Early in the year a specially prepared collection of fossil specimens, with a leaflet "Your Own Fossil Collection" written by members of the Department of Geology, was placed on sale. The set had wide sales (about 6,000 units), both over the counter and through the assistance of a Wm. Wrigley Jr. Company "New Horizons" advertisement, and the Museum again is grateful to Philip K. Wrigley for his interest in the Museum and its educational work. A new Museum Storybook, fifteenth of the popular booklets written by members of Raymond Foundation staff, was on sale. Sales of color-transparency duplicates (of Museum exhibits) continued through General Biological Supply House and in the Museum and totaled 13,209.

PUBLICATIONS AND PRINTING

Again in 1959 the gross income from sales of Museum publications reached a new high. A total of 56,203 copies of publications was sold. Free distribution of publications to other scientific institutions under exchange agreements totaled 15,305 copies (see page 81), and, although the number of copies decreased in 1959, the actual bulk of material increased because the publications issued during the year contained considerably more pages than the output of the Museum Press in 1958. Also, the continued rise in Museum membership (see page 34) resulted in increased activity in the Division of Publications because all mailing plates for Members are maintained and run off there. Raymond A. N. Gomes and Miss Hilda Nordland capably handled the increased volume of work.

During the year the Museum issued nineteen publications in its scientific series, two in its popular series (one a reprint), one handbook, two Museum Storybooks (one a new edition), two guidebooks, three indexes, and one annual report. Of these, copies printed by the Museum Press totaled 32,918 from 2,791 pages of type composition. Twelve issues of *Chicago Natural History Museum Bulletin* were printed, averaging 7,650 copies an issue. Other work included posters, lecture schedules, programs, looseleaf Museum Stories for Raymond Foundation, and tags, totaling 876,346 impressions.

MUSEUM PUBLICATIONS IN 1959

DEPARTMENT OF ANTHROPOLOGY

BRAIDWOOD, ROBERT J.

Prehistoric Men, Popular Series, Anthropology, number 37, 188 pages, 45 illustrations (fourth edition)

COLLIER, DONALD

Indian Art of the Americas, Handbook, Anthropology, 64 pages, 65 illustrations

MARTIN, PAUL S.

Digging into History, A Brief Account of Fifteen Years of Archaeological Work in New Mexico, Popular Series, Anthropology, 157 pages, 63 illustrations, 1 map

RINALDO, JOHN B.

Foot Canyon Pueblo, Eastern Arizona, Fieldiana: Anthropology, volume 49, number 2, 154 pages, 62 illustrations, 3 tables

DEPARTMENT OF BOTANY

DAHLGREN, B. E.

Index of American Palms, Plates, Botanical Series, volume 14, 416 pages, 412 plates

MACBRIDE, J. FRANCIS

Flora of Peru, Botanical Series, volume 13, part 5, number 1, 538 pages

SCHWEINFURTH, CHARLES

Orchids of Peru, Fieldiana: Botany, volume 30, number 2, 280 pages, 58 illustrations

DEPARTMENT OF GEOLOGY

RICHARDSON, EUGENE S., JR.

Pennsylvanian Invertebrates of the Mazon Creek Area, Illinois, Trilobitomorpha, Arthropleurida, II, Fieldiana: Geology, volume 12, number 5, 6 pages, 2 illustrations

SELTIN, RICHARD J.

A Review of the Family Captorhinidae, Fieldiana: Geology, volume 10, number 34, 49 pages, 15 illustrations, 8 tables

DEPARTMENT OF ZOOLOGY

BLAKE, EMMET R.

Two New Game Birds from Peru, Fieldiana: Zoology, volume 39, number 32, 4 pages

GREY, MARION

Deep Sea Fishes from the Gulf of Mexico, With the Description of a New Species Squalogadus intermedius (Macrouroididae), Fieldiana: Zoology, volume 39, number 29, 24 pages, 5 illustrations

HAAS, FRITZ

Inland Mollusks from Venezuela, Southern Brazil, and Peru, Fieldiana: Zoology, volume 39, number 31, 9 pages, 5 illustrations

MUSEUM PUBLICATIONS IN 1959

HOOGSTRAAL, HARRY, AND MAKRAM N. KAISER

Ticks (Ixodoidea) of Arabia, With Special Reference to the Yemen, Fieldiana: Zoology, volume 39, number 28, 26 pages, 3 illustrations, 1 map

INGER, ROBERT F., AND CHIN PHUI KONG

New Species of Fresh-water Catfishes from North Borneo, Fieldiana: Zoology, volume 39, number 27, 18 pages, 3 illustrations, 2 tables

MARX, HYMEN

Review of the Colubrid Snake Genus Spalerosophis, Fieldiana: Zoology, volume 39, number 30, 15 pages, 2 illustrations, 1 map, 1 table

PHILIP, CORNELIUS B.

Philippine Zoological Expedition 1946-1947, Tabanidae (Diptera), Fieldiana: Zoology, volume 33, number 6, 85 pages, 34 illustrations

RAND, AUSTIN L., HERBERT FRIEDMANN, AND MELVIN A. TRAYLOR, JR.

Birds from Gabon and Moyen Congo, Fieldiana: Zoology, volume 41, number 2, 193 pages, 1 map

RAND, AUSTIN L., AND D. S. RABOR

Three New Birds from the Philippine Islands, Fieldiana: Zoology, volume 39, number 26, 3 pages

RAND, AUSTIN L., AND MELVIN A. TRAYLOR, JR.

Three New Birds from West Africa, Fieldiana: Zoology, volume 39, number 25, 5 pages

SOLEM, ALAN

Systematics of the Land and Fresh-water Mollusca of the New Hebrides, Fieldiana: Zoology, volume 43, number 1, 273 pages, 8 illustrations, 34 plates
Zoogeography of the Land and Fresh-water Mollusca of the New Hebrides, Fieldiana: Zoology, volume 43, number 2, 121 pages, 30 illustrations

STRONG, REUBEN MYRON

A Bibliography of Birds, Finding Index, Zoological Series, volume 25, part 4, 186 pages

OTHER MUSEUM PUBLICATIONS

COSNER, WINONA, LORAIN STEPHENS, AND OTHERS

Swamp Dwellers, Museum Storybook (11 Museum Stories), 28 pages, 13 illustrations, paperbound (second edition)

General Guide, Chicago Natural History Museum, 48 pages, 32 illustrations, floor plans, map (thirty-eighth edition)

MANLY, CHESLY

One Billion Years at Our Doorstep, A Series of Six Articles on Chicago Natural History Museum Reprinted from the Chicago Tribune, 64 pages, 23 illustrations

Report of the Director to the Board of Trustees for the Year 1958, 175 pages, 25 illustrations

WEAVER, DOLLA COX

And First, There Was Life in the Water, Museum Storybook (8 Museum Stories), 21 pages, 8 illustrations, 1 chart, paperbound

CHICAGO NATURAL HISTORY MUSEUM BULLETIN

Chicago Natural History Museum Bulletin, volume 30 (1959), 12 numbers,
100 pages, illustrated

THE FOLLOWING ARTICLES AND REVIEWS BY STAFF MEMBERS OF CHICAGO NATURAL HISTORY MUSEUM ARE PRINTED IN VOLUME 30 OF THE BULLETIN:

BLAKE, EMMET R.

"'Birds of the World' Nearing Completion," no. 12, p. 5, 1 illustration

"Explorer Finds Rare Birds in Wilderness of Peru," no. 2, pp. 3, 6-7,
3 illustrations, 1 map

CHANGNON, HARRY

"Gem with Qualities of a Chameleon," no. 9, pp. 4-5, 2 illustrations

COLLIER, DONALD

"Ancient Art of Western Mexico," no. 2, pp. 4-5, 11 illustrations (and
cover picture)

"Ancient Forerunner of Whistling Kettle," no. 4, p. 6, 1 illustration,
1 diagram

"A New Display of Ancient Mexican Art (900-500 B.C.), no. 6, p. 3,
3 illustrations

"Aztec Trade," no. 10, p. 5

"Indian Art of Entire Western Hemisphere in Exhibit," no. 8, p. 3,
1 illustration (also 15 illustrations on pp. 4-5 and cover picture)

"New Aztec Diorama Completes Meso-American Hall," no. 9, pp. 3-4,
4 illustrations (and cover picture)

DAVIS, D. DWIGHT

"Centennial of Darwin's 'Origin of Species' Hailed," no. 11, pp. 3-4 (cover
picture)

"Through Rain-forests in Central Malaya," no. 6, pp. 6-7, 1 illustration

FORCE, ROLAND W.

"The Varied Peoples of Thousands of Pacific Isles," no. 5, pp. 6, 8 (cover
picture)

FORSLEV, ALBERT W.

"Nature's Secret: Source of U. S. Diamonds," no. 10, pp. 5-6, 1 illustration,
1 cartoon

"New Exhibits Show Rapid Progress in Mineralogy," no. 4, pp. 3-4,
1 illustration (and cover picture)

HERSHKOVITZ, PHILIP

Review of *British Mammals* (by Maurice Burton), no. 4, p. 4

INGER, ROBERT F.

"'Darkest Africa' Truly Is Glaringly Bright," no. 11, pp. 8-9

Review of *A Field Guide to Reptiles and Amphibians of the United States and
Canada East of the 100th Meridian* (by Robert Conant), no. 4, p. 4

JINDRICH, MARILYN

"'Rubbing' Against History and Culture of China," no. 12, pp. 3, 8,
2 illustrations (and cover picture)

"The Christmas Islands Defy Yule Tradition," no. 12, p. 6

JUST, THEODORE

"Darwin, an Orchid, and a Moth," no. 11, p. 5, 1 illustration

"'He Influenced the Course of Darwin's Life,'" no. 12, p. 4, 2 illustrations

THE MUSEUM BULLETIN (CONTINUED)

MARTIN, PAUL S.

"Katchina Cult Traced Back to A.D. 1250," no. 9, pp. 7-8, 2 illustrations

"Mystery of Handwriting on the Wall in Southwest," no. 11, pp. 6-7, 11, 6 illustrations

"The Discovery of America (circa 23,000 B.C.)," no. 4, p. 7, 1 illustration

McAFEE, PATRICIA

"How Museum Aids Police in Criminal Investigation," no. 4, pp. 5-6, 2 illustrations

"Special Exhibit Shows Exotic Musical Instruments," no. 7, pp. 3, 6, 2 illustrations

QUIMBY, GEORGE I.

"'Feast of Dead' Released Hurons' Souls," no. 7, pp. 4, 6, 1 illustration

"The Old Copper Indians and Their World," no. 1, pp. 4-5, 3 illustrations, 2 maps

"Upper Lakes Farmers and Artists, 100 B.C.," no. 3, pp. 6-7, 3 illustrations

RAND, AUSTIN L.

"Common Bird Names Are All Confused," no. 3, p. 4, 1 cartoon

"Pity Poor Pigeon: Host to a Community," no. 8, pp. 6-7, 1 cartoon

ROWELL, ALFRED LEE

"Ancient Aztecs Had 'Commercial Artists,'" no. 10, pp. 4-5, 3 illustrations

SMITH, C. EARLE, JR.

"A Personal Herbarium for the Home," no. 11, pp. 10-11, 2 illustrations

SOLEM, ALAN

"Museum Collectors' Adventures in Panama," no. 6, p. 5, 2 illustrations

Review of *Sea Treasure, A Guide to Shell Collecting* (by Kathleen Yerger Johnstone), no. 8, p. 7

SOLEM, ALAN, AND EUGENE S. RICHARDSON, JR.

"Museum Acquires Museum," no. 8, p. 2

SVOBODA, MARIE

"Children's Journey on Giant Plants," no. 9, p. 7

TRAYLOR, MELVIN A., JR.

"Research on Birds, Ticks, and Viruses," no. 7, p. 7

TURNBULL, WILLIAM D.

"Ant Colony Assists Fossil Collectors in Wyoming," no. 9, pp. 6-7, 4 illustrations

WENZEL, RUPERT L.

"William J. Gerhard, 1873-1958," no. 1, p. 2, 1 illustration

WOODBURY, RICHARD B.

Review of *Digging into History* (by Paul S. Martin), no. 6, p. 7

WOODLAND, BERTRAM G.

"Naming a Rock," no. 7, pp. 5-6, 1 illustration, 1 diagram

WOODS, LOREN P.

"A Survey of Fishes in an Illinois Stream," no. 1, pp. 6-7, 2 illustrations

Review of *A Century of Biological Research* (Illinois Natural History Survey), no. 7, p. 2

OTHER PUBLICATION OF STAFF MEMBERS IN 1959

DEPARTMENT OF ANTHROPOLOGY

COLLIER, DONALD

"El Desarrollo de la Civilización Peruana," *Revista Colombiana de Antropología*, vol. 8, pp. 273-287

Review of *Contemporary Pottery Techniques in Central and Southern Mexico* (by George M. Foster), in *American Antiquity*, vol. 24, no. 3, p. 329

FORCE, ROLAND W.

"Palauan Money: Some Preliminary Comments on Material and Origins," *The Journal of the Polynesian Society*, vol. 68, no. 1, pp. 40-44

LEWIS, PHILLIP H.

"What Is Primitive Art?" *WFMT Fine Arts Guide*, vol. 8, no. 3, pp. 6-9, 24 illustrations

QUIMBY, GEORGE I.

"Lanceolate Points and Fossil Beaches in the Upper Great Lakes Region," *American Antiquity*, vol. 24, no. 4, pp. 424-426

"Silver Ornaments and the Indians," in *Misceallanea Paul Rivet Octogenario Dictata* [2 volumes] (XXXI Congreso Internacional de Americanistas, Universidad Nacional Autónoma de México, México, D.F.), vol. 1, pp. 317-337

Review of *Geology of the Great Lakes* (by Jack L. Hough), in *American Antiquity*, vol. 25, no. 2, pp. 277-279 [with George M. Stanley]

Review of *Late Pleistocene Geochronology and the Paleo-Indian Penetration into Lower Michigan Peninsula* (by Roland J. Mason), in *American Antiquity*, vol. 24, no. 3, p. 327

DEPARTMENT OF BOTANY

DAHLGREN, B. E.

"A New *Copernicia* Hybrid from Cuba," *Principes*, vol. 3, no. 3, pp. 87-90, 1 table, 4 illustrations [with S. F. Glassman]

JUST, THEODORE

"Postglacial Vegetation of the North-Central United States: A Review," *The Journal of Geology*, vol. 67, no. 2, pp. 228-238

"Progress in Paleobotany, 1908-1958," *Journal of Paleontology*, vol. 33, no. 3, pp. 500-510

"The American Midland Naturalist—A Living Tribute to Its Founder," *The American Midland Naturalist* (Cumulative Index Issue), vol. 60, no. 2, pp. 9-12

"The Ecological Approach to Germfree Life Studies," *Annals of the New York Academy of Sciences*, vol. 78, no. 1, pp. 371-374

SMITH, C. EARLE, JR.

"Thomas Nuttall, 1786-1859: An Evaluation and Biography," *Leaflets of Western Botany*, vol. 9, no. 3, pp. 33-42 [with John W. Thieret]

THIERET, JOHN W.

"An English Obituary Account of Thomas Nuttall (Concluding Part)," *Bartonia*, no. 29, p. 10 [with C. Earle Smith, Jr.]

"Grassland Vegetation Near Ft. Providence, Northwest Territories," *The Canadian Field-Naturalist*, vol. 73, no. 3, pp. 161-167

"Statistical Catalogue of Scrophulariaceae," in *Catalogo e Estatica dos Generos Botânicos Fanerogâmicos* [J. Angely, editor] (published serially by Instituto Paranaense de Botânica, Curitiba, Brazil), vol. 49, pp. 3-10

OTHER PUBLICATIONS OF STAFF MEMBERS IN 1959

DEPARTMENT OF GEOLOGY

GILPIN, ORVILLE L.

"A Free-standing Mount of Gorgosaurus," *Curator*, vol. 2, no. 2, pp. 162-168

RICHARDSON, EUGENE S., JR.

"Fossils," in *The American Peoples Encyclopedia Yearbook, Events and Personalities of 1958*, p. 537

WIEBE, MAID[†]

"Fürsorge für fremde Brut," *Natur und Volk*, vol. 89, no. 12, pp. 399-400

ZANGERL, RAINER

"Rudimentäre Carapaxbeschuppung bei jungen Exemplaren von *Carettochelys* und ihre morphogenetische Bedeutung," *Vierteljahresschrift der Naturforschenden Gesellschaft in Zürich*, Jahrgang 104 (Festschrift H. Steiner), pp. 138-147, 8 illustrations

DEPARTMENT OF ZOOLOGY

BLAKE, EMMET R.

"A New Species of *Todirostrum* from Peru," *Natural History Miscellanea* [Chicago], no. 171, pp. 1-2

"New and Rare Colombian Birds," *Lozania*, no. 11, pp. 1-10

DAVIS, D. DWIGHT

"Karl Paterson Schmidt, 1890-1957," *Copeia*, 1959, pp. 189-192

"Science Congress at Singapore," *Science*, vol. 129, pp. 1620-1621

GREY, MARION

"Descriptions of Newly Discovered Western Atlantic Specimens of *Diceratias bispinosus* Günther and *Paroneirodes wedli* (Pietschmann)," *Copeia*, 1959, no. 3, pp. 225-228, 1 illustration

"Three New Genera and One New Species of the Family Gonostomatidae," *Bulletin of the Museum of Comparative Zoology*, vol. 121, no. 4, pp. 167-184, 3 illustrations

HAAS, FRITZ

"Protection under the Plenary Powers of the Generic Name *Anodonta* Lamarck, 1799 (Class Pelecypoda), A Name Placed on the Official List of Generic Names in Zoology in 1926 by the Ruling Given in Opinion 94," *Opinions and Declarations, International Commission on Zoological Nomenclature*, vol. 20, no. 28, pp. 303-310

"Shells Collected by the Expedition," in *An Anthropological Reconnaissance to West Pakistan 1955* (Henry Field), *Papers, Peabody Museum of Archaeology and Ethnology*, vol. 52, p. 228

HERSHKOVITZ, PHILIP

"A New Race of Red Brocket (*Mazama americana*) from Colombia," *Proceedings of the Biological Society of Washington*, vol. 72, pp. 93-96

"A New Species of South American Brocket, Genus *Mazama* (Cervidae)," *Proceedings of the Biological Society of Washington*, vol. 72, pp. 45-54

"Nomenclature and Taxonomy of the Neotropical Mammals Described by Olfers, 1818," *Journal of Mammalogy*, vol. 40, no. 3, pp. 337-353

"The Metatarsal Glands in White-tailed Deer and Related Forms of the Neotropical Region," *Mammalia*, vol. 22, pp. 537-546

OTHER PUBLICATIONS BY STAFF MEMBERS IN 1959

INGER, ROBERT F.

Amphibians Exclusive of the Genera Afrixalus and Hyperolius (Exploration du Parc National de l'Upemba, volume 56), 264 pages [with Karl P. Schmidt]

"Temperature Responses and Ecological Relations of Two Bornean Lizards," *Ecology*, vol. 40, pp. 127-136

KOOPMAN, KARL F.

"Subfossil Mammals from the Bomez Farias Region and the Tropical Gradient of Eastern Mexico," *Journal of Mammalogy*, vol. 40, pp. 1-12 [with Paul S. Martin]

"The Zoogeographical Limits of the West Indies," *Journal of Mammalogy*, vol. 40, 236-240

MARX, HYMAN

"A Herpetological Collection from Northeastern Iraq," *Transactions of the Kansas Academy of Science*, vol. 62, pp. 91-122 [with Charles A. Reed]

"A New Skink from Australia," *Copeia*, 1959, no. 3, pp. 207-208 [with William Hosmer]

NELSON, EDWARD M.

"The Cranial Anatomy of a Free-Living Pomacentrid 'Cyclopean,'" *Copeia*, 1959, no. 2, pp. 152-156, 5 illustrations

RAND, AUSTIN L.

"Birds," in *The American Peoples Encyclopedia Yearbook, Events and Personalities of 1958*, pp. 284-285

"Late Records of the Cebu Golden-backed Hanging Parrakeet," *Aviculture*, vol. 65, pp. 177-178

"Notes on Some Philippine Bulbuls," *The Auk*, vol. 76, pp. 102-104 [with D. S. Rabor]

"Pitch Plastering of the Red-breasted Nuthatch," *Audubon Magazine*, vol. 61, pp. 270-272, 2 illustrations

ROSCOE, ERNEST J.

"An Additional Record of *Lymnaea auricularia* from Utah," *Gastropodia*, vol. 1, no. 3, p. 23, 2 illustrations

SOLEM, ALAN

"Marine Mollusca of the New Hebrides," *Pacific Science*, vol. 13, no. 3, pp. 253-268, 1 table

Notes on Mexican Mollusks, II (Occasional Papers of the Museum of Zoology, University of Michigan, number 611), 15 pages, 2 illustrations, 3 tables

"On the Family Position of Some Palau, New Guinea, and Queensland Snails," *Archiv für Molluskenkunde*, vol. 88, pp. 151-158, 4 illustrations

TRAYLOR, MELVIN A., JR.

"A New Race of Weaver Bird, *Ploceus intermedius*," *Natural History Miscellaneous* [Chicago], no. 169, pp. 1-2

"The Systematics of the African Grey Tits, *Parus afer* and *Parus griseiventris*," *Bulletin of the British Ornithologists' Club*, vol. 79, pp. 42-46 [with Mrs. B. P. Hall]

WENZEL, RUPERT L.

"William J. Gerhard, 1873-1958," *Annals of the Entomological Society of America*, vol. 52, pp. 339-340, 1 illustration

WOODS, LOREN P.

"*Parahollandia schmidtii*, A New Triacanthodid Fish from the Western Caribbean," *Copeia*, 1959, no. 3, pp. 222-225, 1 illustration

MAINTENANCE, CONSTRUCTION, AND ENGINEERING

The work of installation and reinstallation in various exhibition halls throughout the Museum necessarily took a great amount of the time and effort of the maintenance and engineering personnel. The special exhibit "Indian Art of the Americas" (see page 25) required the erection of special hallcases, bases, and canopies in Stanley Field Hall. Special bases were prepared for installation of the fossil stump in Hall 26 (Botany, see page 57) and for reinstallation of certain fossil specimens in Hall 38 (Geology, see page 65), which required glass panels.

A major rearrangement in the Department of Geology required the installation of 87 new steel storage-cases to house fossil material in the research collections. In addition, 2,000 trays for storage-cases were made in the Museum's shops, and 15 five-drawer map units were installed. The picnic room was remodeled to provide better ventilation and to increase the general attractiveness of the entire area (see page 98). Many other improvements that increase efficiency in laboratories and workrooms were completed throughout the Museum. In addition, the usual efficiency of painters, janitors, and others involved in the service of cleaning and refurbishing the Museum has kept the building at the high standard of cleanliness that so often evokes comment from our visitors.

Exterior maintenance of the building included tuckpointing the north and south steps as well as the areaways both at ground-floor and third-floor levels. The blacktop areas of the terraces north and south of the building were recoated, and work was done near the west door to counteract the effect of settling. The continuous inspection of the building and the planning and supervision of its maintenance and care by James R. Shouba, Superintendent, insure maximum safety and cleanliness throughout.

The floodlighting of the building (see page 21) was a culmination of long and careful planning by William E. Lake, Chief Engineer of the Museum. Plans included running new power lines from the transformers to a main control-panel located in the switchboard room from where current was distributed to six small panels placed at various points on the ground floor, and from these panels circuits were run to the various outlets outside the building. To prevent corrosion and also to prevent staining the marble walls, aluminum conduit was used throughout. To complete this project 330 floodlight fixtures and several miles of wire were required. After careful testing, the floodlighting was formally displayed to the public on the evening of June 16.

Another major project in the Division of Engineering was the installation of a third boiler to replace a boiler that had been installed in the building before 1920. The old boiler had been used in recent years only for short periods, and careful appraisal indicated that it could no longer be operated at the high pressures used in the two newer boilers installed ten years ago. Therefore it was removed, and new equipment was installed that could be used either independently or with the other boilers. Work was begun on the removal of the old boiler in June, and the new boiler was ready for service early in December.

In the summer months routine cleaning, inspection, and replacement of parts were completed for boilers, pumps, and other machinery. Two of the two-inch steam lines feeding steam to Hall 4 (Anthropology) and Hall 16 (Zoology) were found to be in bad condition and were replaced with new pipe and re-covered. Other steam-line and plumbing maintenance was taken care of as required.

During the year new slim-line fixtures were installed in Hall 4 (Anthropology) to improve lighting. Lighting of exhibit cases was completed in Hall 8 (Anthropology) and in Hall 26 (Botany). Gas lights formerly used to mark the exits in James Simpson Theatre were replaced with new approved electrical units. Switches on the main switchboard were replaced to eliminate any possible loss of current by improper contact.

Under existing contracts with the John G. Shedd Aquarium and the Chicago Park District, a total of 11,673,350 pounds of steam was furnished to the Aquarium and a total of 17,132,794 pounds of steam was furnished to the Park District. A total of 64,776,350 pounds of steam was generated, 35,970,206 pounds of this amount being used to heat the Museum building.

MISCELLANEOUS

In the pages that follow are submitted the Museum's financial statements, attendance statistics, door receipts, accessions, list of Members, articles of incorporation, and amended by-laws.

CLIFFORD C. GREGG, *Director*
Chicago Natural History Museum

ATTENDANCE STATISTICS

FINANCIAL STATEMENTS

LIST OF ACCESSIONS

LIST OF MEMBERS

ARTICLES OF INCORPORATION

AMENDED BY LAWS



WAR
SHIELD

CROW
MONTANA

DIAMETER
23
INCHES

COMPARATIVE ATTENDANCE STATISTICS AND DOOR RECEIPTS

FOR YEARS 1959 AND 1958

| | 1959 | 1958 |
|--|-----------|----------------------|
| Total attendance..... | 1,075,426 | 1,049,401 |
| Paid attendance..... | 157,643 | 161,593 |
| Free admissions on pay days | | |
| Students..... | 53,662 | 45,106 |
| School children..... | 166,298 | 156,469 |
| Teachers..... | 10,883 | 8,955 |
| Members of the Museum..... | 756 | 708 |
| Service men and women..... | 840 | 811 |
| Special meetings and occasions..... | 3,640 | 3,519 |
| Press..... | 43 | 41 |
| Admissions on free days | | |
| Thursdays (52)..... | 141,491 | (51) 131,665 |
| Saturdays (52)..... | 251,262 | (52) 246,379 |
| Sundays (52)..... | 288,908 | (52) 294,155 |
| Highest attendance on any day | | |
| (November 28)..... | 13,888 | (November 29) 15,133 |
| Lowest attendance on any day | | |
| (January 5)..... | 149 | (January 6) 244 |
| Highest paid attendance (September 7)... | 3,236 | (September 1) 3,332 |
| Average daily admissions (363 days)..... | 2,963 | (363 days) 2,891 |
| Average paid admissions (207 days)..... | 765 | (208 days) 777 |
| <hr/> | | |
| Number of picture postcards sold..... | 278,682 | 247,866 |
| Sales of Museum publications (scientific and popular), <i>General Guide</i> , and photographs; checkroom receipts..... | \$ 35,179 | \$ 29,675 |

CHICAGO NATURAL HISTORY MUSEUM

COMPARATIVE STATEMENT OF RECEIPTS AND EXPENDITURES—CURRENT FUNDS

FOR THE YEARS 1959 AND 1958

GENERAL OPERATING FUND

| RECEIPTS: | 1959 | 1958 |
|--|--------------------|--------------------|
| Endowment income— | | |
| From investments in securities..... | \$ 386,590 | \$ 376,185 |
| From investments in real estate..... | 406,801 | 428,280 |
| | <u>\$ 793,391</u> | <u>\$ 804,465</u> |
| Chicago Park District—tax collections..... | \$ 379,249 | \$ 232,406 |
| Annual and sustaining memberships..... | 29,340 | 28,925 |
| Admissions..... | 39,411 | 40,398 |
| Sundry receipts, including general purpose contri- butions..... | 80,574 | 69,573 |
| Restricted funds transferred to apply against Operating Fund expenditures (contra)..... | 247,622 | 222,741 |
| | <u>\$1,569,587</u> | <u>\$1,398,508</u> |
| EXPENDITURES: | | |
| Operating expenses— | | |
| Departmental operating expenses..... | \$ 633,983 | \$ 548,329 |
| General operating expenses..... | 493,319 | 438,007 |
| Building repairs and alterations..... | 97,321 | 127,997 |
| | <u>\$1,224,623</u> | <u>\$1,114,333</u> |
| Collections— | | |
| Purchases and expedition costs..... | \$ 81,873 | \$ 191,899 |
| Furniture, fixtures, and equipment..... | 23,210 | 10,884 |
| Pension and employees' benefits..... | 81,879 | 73,240 |
| Provision for mechanical plant depreciation (contra)..... | 10,000 | 10,000 |
| Nonrecurring expenditures— | | |
| Purchase and installation of boiler | | |
| Amount paid in 1959..... | \$ 99,452 | |
| (\$20,000 additional to be paid in 1960) | | |
| Exterior lighting of Museum building..... | 49,300 | |
| | <u>\$1,570,337</u> | <u>\$1,400,356</u> |
| DEFICIT FOR YEAR..... | <u>\$ 750</u> | <u>\$ 1,848</u> |

AUDITOR'S CERTIFICATE APPEARS ON FOLLOWING PAGE

CONTINUED ON NEXT PAGE

CHICAGO NATURAL HISTORY MUSEUM
COMPARATIVE STATEMENT OF RECEIPTS
AND EXPENDITURES—CURRENT FUNDS

FOR THE YEARS 1959 AND 1958 (CONTINUED)

THE N. W. HARRIS PUBLIC SCHOOL
EXTENSION FUND

| | 1959 | 1958 |
|-----------------------------|-----------------|-----------------|
| Income from endowments..... | \$ 31,120 | \$ 30,106 |
| Expenditures..... | 28,213 | 27,178 |
| SURPLUS FOR THE YEAR..... | <u>\$ 2,907</u> | <u>\$ 2,928</u> |

OTHER RESTRICTED FUNDS

| RECEIPTS: | 1959 | 1958 |
|--|---------------------|---------------------|
| From Specific Endowment Fund investments.... | \$ 74,367 | \$ 71,193 |
| Contributions for specified purposes..... | 54,187 | 12,491 |
| Operating Fund appropriations for mechanical plant depreciation (contra)..... | 10,000 | 10,000 |
| Sundry receipts..... | 63,541 | 72,966 |
| | <u>\$ 202,095</u> | <u>\$ 166,650</u> |
| EXPENDITURES: | | |
| Transferred to Operating Fund to apply against expenditures (contra)..... | \$ 247,622 | \$ 222,741 |
| Added to Endowment Fund principal..... | 70,000 | 52,000 |
| (Gain) loss on sale of securities..... | (7,161) | 3,763 |
| | <u>\$ 310,461</u> | <u>\$ 278,504</u> |
| EXCESS OF EXPENDITURES OVER RECEIPTS..... | <u>\$ (108,366)</u> | <u>\$ (111,854)</u> |

THE TRUSTEES,
CHICAGO NATURAL HISTORY MUSEUM:

In our opinion, the accompanying statement presents fairly the receipts and expenditures of the current funds of Chicago Natural History Museum for the year ended December 31, 1959, in conformity with generally accepted accounting principles applied on the same basis as in the preceding year. Our examination of the statement was made in accordance with generally accepted auditing standards, and accordingly included such tests of the accounting records and such other auditing procedures as we considered necessary in the circumstances.

ARTHUR YOUNG & COMPANY

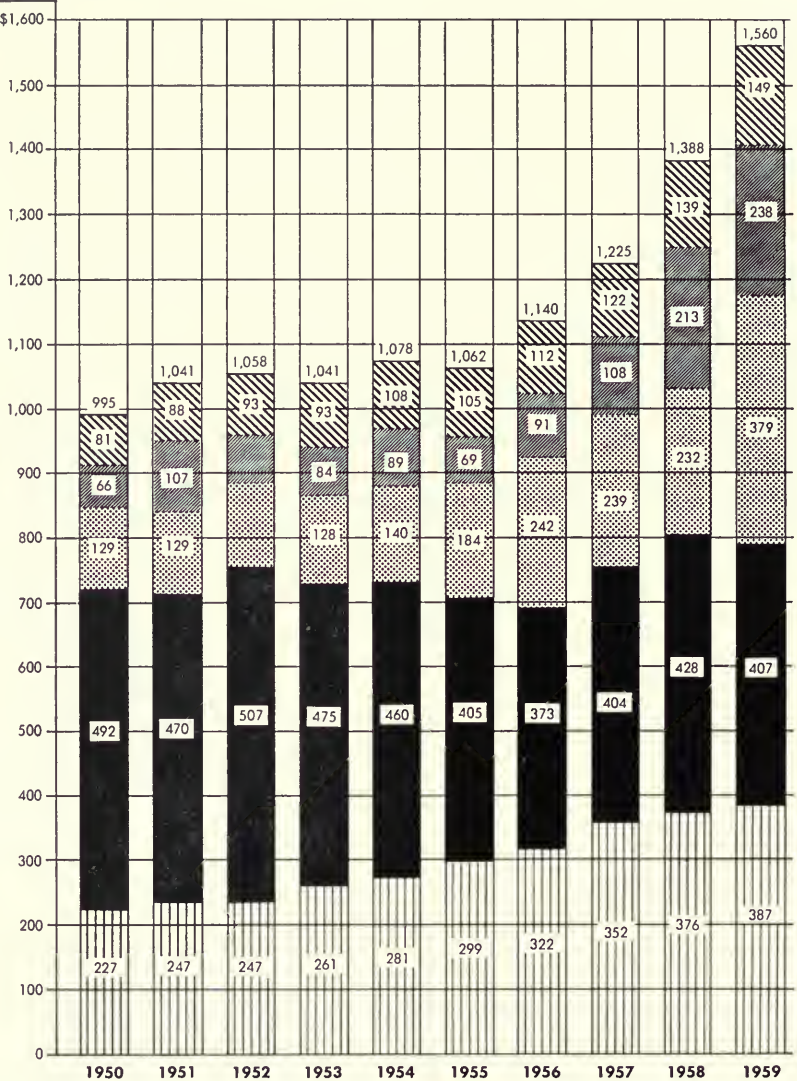
Chicago, Illinois
February 1, 1960

OPERATING FUND RECEIPTS—TEN-YEAR SUMMARY

(in thousands of dollars)

RECEIPTS:

\$000 Omitted



Investment Income

Real Estate Income

Chicago Park District Tax Collections

Restricted Funds Transferred

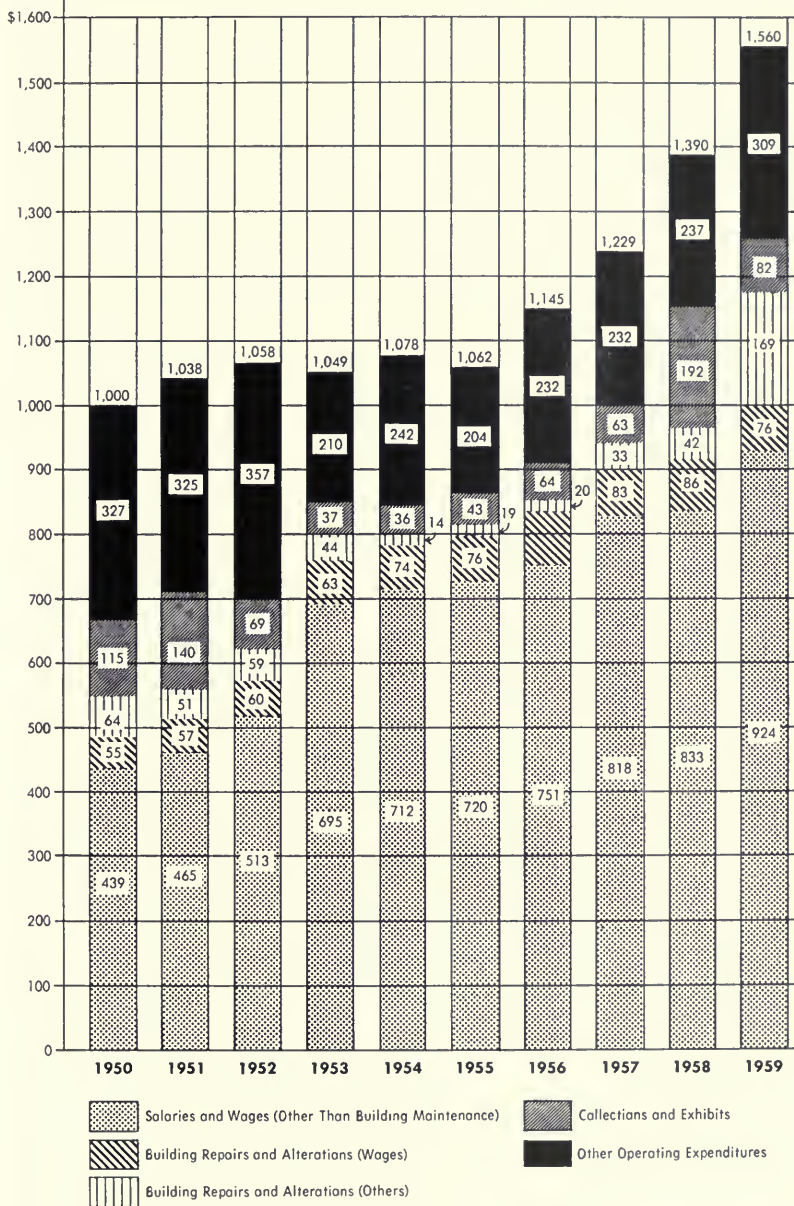
Other Operating Receipts

OPERATING FUND EXPENDITURES—TEN-YEAR SUMMARY

(in thousands of dollars)

EXPENDITURES:

\$000 Omitted



USE DURING 1959 OF SPECIAL FUNDS CONTRIBUTED IN FORMER YEARS

| | |
|---|-------------|
| EDWARD E. AYER LECTURE FOUNDATION | |
| Cost of Museum lecture series..... | \$ 4,087.55 |
| Subsidy to publication program..... | 1,559.39 |
| FREDERICK AND ABBY KETTELLE BABCOCK FUND | |
| Subsidy to publication program..... | 1,434.13 |
| MRS. T. B. BLACKSTONE FUND | |
| Purchase of specimens..... | 900.00 |
| EMILY CRANE CHADBOURNE ZOOLOGICAL FUND | |
| Purchase of specimens..... | 539.20 |
| WILLIAM J. AND JOAN A. CHALMERS TRUST FUND | |
| Purchase of specimens..... | 50.00 |
| MRS. JOAN A. CHALMERS BEQUEST FUND | |
| Purchase of specimens..... | 436.40 |
| Scientific conferences..... | 450.00 |
| Field trips..... | 276.40 |
| CONOVER GAME-BIRD FUND | |
| Purchase of specimens..... | 1,602.00 |
| Field trips..... | 3,777.60 |
| THOMAS J. DEE FELLOWSHIP FUND | |
| Fellowship grant to Alfredo Evangelista..... | 1,215.00 |
| GROUP INSURANCE FUND* | |
| Group insurance costs..... | 8,336.82 |
| Subsidy to Pension Fund..... | 7,542.46 |
| N. W. HARRIS PUBLIC SCHOOL EXTENSION FUND | |
| Preparation, care, and distribution of exhibits to schools of Chicago..... | 28,212.78 |
| INSTITUT DES PARCS NATIONAUX DU CONGO BELGE | |
| Belgian Congo expedition..... | 4,224.26 |
| THE JOHNSON FOUNDATION | |
| Research on waxy palms..... | 2,721.00 |
| LIBRARY FUND† | |
| Purchase of books and periodicals..... | 3,521.19 |
| NATIONAL SCIENCE FOUNDATION | |
| Research subsidies (various)..... | 20,699.47 |
| JAMES NELSON AND ANNA LOUISE RAYMOND PUBLIC SCHOOL AND CHILDREN'S LECTURE FUND | |
| Subsidy to public school and children's lecture program..... | 33,216.35 |
| DONALD RICHARDS FUND | |
| Subsidy to cryptogamic botanical research..... | 1,996.20 |
| MAURICE L. RICHARDSON PALEONTOLOGICAL FUND | |
| Field trip to Washakie Basin..... | 1,488.28 |
| KARL P. SCHMIDT FUND | |
| Study grants..... | 197.60 |
| DEWITT VAN EVERA PURCHASE FUND | |
| Purchase of ethnological portraits..... | 4,700.00 |

These funds have been used in accordance with the stipulations under which they were accepted by the Museum. In addition, the income from more than \$12,000,000 of contributed endowment funds was used in general Museum operation.

* Established by Stanley Field

† Established by Edward E. Ayer, Huntington W. Jackson, Arthur B. Jones, and Julius and Augusta N. Rosenwald

Contributions and Bequests

Contributions and bequests to Chicago Natural History Museum may be made in securities, money, books, or collections. They may, if desired, take the form of a memorial to a person or cause, to be named by the giver. For those desirous of making bequests to the Museum, the following form is suggested:

FORM OF BEQUEST

I do hereby give and bequeath to Chicago Natural History Museum of the City of Chicago, State of Illinois:

Cash contributions made within the taxable year to Chicago Natural History Museum to an amount not in excess of 20 per cent of the taxpayer's net income are allowable as deductions in computing net income for federal income tax

ACCESSIONS 1959

DEPARTMENT OF ANTHROPOLOGY

BAHR, MISS EDNA H., Ridgefield, Connecticut: archaeological materials—China (gift)

BAKER, MRS. JOEL, Nashville, Ohio: Manchurian lady's costume—China (gift)

BARRYMORE, JAY, Chicago: amulets—Egypt (gift)

BASCOT, DR. WILLIAM R., Berkeley, California: 8 ethnological objects—West Africa (gift)

BUJAK, WALTER, Cleveland: reproduction of rubbing of Maya stone disc (gift)

CARLOCK, MRS. LYMAN, Oak Park, Illinois: 41 ethnological objects—China, Japan, and Philippine Islands (gift)

CHICAGO NATURAL HISTORY MUSEUM:

Collected by Dr. Paul S. Martin (Southwest Archaeological Expedition, 1959): 1,212 stone, bone, and shell artifacts, 4 skeletons, 25 restorable pottery vessels, 15,000 sherds

Purchases: Osage skirt, 9 Tibetan books and handwritten Tibetan manuscript, 2 African masks and 1 leg ornament, 21 paintings of South American Indians, archaeological and ethnological specimens from China

Transfer: slab of invertebrate fossils with Chinese poem engraved on one side—from Department of Geology, Chicago Natural History Museum (see Annual Report 1926 [vol. 7, no. 1, 1927], page 111, Accessions, Department of Geology, "Bahr, A. W.")

FORCE, DR. ROLAND W., Chesterton, Indiana: 2 knives, 1 spear—Burma (gift)

FUCHS, LOUIS H., Chicago: ethnological materials—Philippine Islands and China (gift)

FULLER, CAPTAIN AND MRS. A. W. F., London: greenstone *hei tiki*—New Zealand (gift)

GILCHRIST, MRS. JOHN FOSTER, Chicago: pottery figurine—Mexico (gift)

GRAHAM, DR. DAVID C., Englewood, Colorado: archaeological and ethnological specimens—China (gift)

HALDEMAN, MRS. WALTER, Cape May, New Jersey: Mandarin coat—China (gift)

HARRIS, MRS. ROBERT, Oak Park, Illinois: photographic slides (gift)

MACKINLAY, MISS ALICE, Chicago: pottery effigy receptacle—southwestern United States (gift)

MACNAB, CHARLES, Chicago: 34 projectile points, 4 scrapers—Saudi Arabia (gift)

MCNAMARA, MRS. ROBERT C., Winnetka, Illinois: 3 pottery vessels—Arizona (gift)

NOREM, MR. AND MRS. LAURENCE, Hubbard Woods, Illinois: ethnological materials—India, China, and Japan (gift)

POPE, MISS KATHERINE, Chicago: 4 wooden foodbowls—Polynesia (gift)

RAYMOND, DR. ALBERT, Northfield, Illinois: replica of petroglyph (gift)

RUCAVADO, MRS. HAROLD, Tucson, Arizona: 22 archaeological specimens—Costa Rica (gift)

SMARTZ, MISS SARAH, Chicago: burial mat—Solomon Islands (gift)

WIELGUS, RAYMOND, Chicago: shield and mask—Melanesia (exchange); drum—New Guinea (gift)

WILTSEE, E. T., Centerburg, Ohio: water basket—New Mexico (gift)

DEPARTMENT OF BOTANY

ACADEMY OF NATURAL SCIENCES OF PHILADELPHIA, Philadelphia: 91 specimens of vascular plants (21 as gift and 70 as exchange)

ARISTIGUIETA, DR. LEANDRO, Caracas, Venezuela: specimen of *Sloanea grandiflora* (gift)

BENNETT, HOLLY REED, Chicago: 4,809 specimens of vascular plants (gift)

BERNICE P. BISHOP MUSEUM, Honolulu: 3 specimens of woody plants (gift)

BOTANICAL MUSEUM OF THE UNIVERSITY, Copenhagen, Denmark: 204 bryophytes (exchange)

BOTANISCHER GARTEN UND MUSEUM, Berlin-Dahlem, Germany: 258 specimens of flowering plants (exchange)

BRITISH MUSEUM (NATURAL HISTORY), London: 290 specimens of vascular plants and 86 specimens of fungi (exchange)

CALIFORNIA ACADEMY OF SCIENCES, San Francisco: 173 specimens of flowering plants (exchange)

CANADA DEPARTMENT OF AGRICULTURE, Ottawa, Ontario: 433 specimens of vascular plants (exchange)

CENTRO NACIONAL DE AGRONOMIA, Santa Tecla, El Salvador: 297 specimens of vascular plants (exchange)

CHICAGO ACADEMY OF SCIENCES, Chicago: specimen of *Asimina triloba* (gift)

CHICAGO NATURAL HISTORY MUSEUM: Collected by Dr. John W. Thieret and Robert J. Reich (Northern Great Plains Botanical Field Trip, 1959): 5,000 specimens of vascular plants, 275 specimens of cryptogams, 110 wood samples, 13 seed samples

Purchases: 180 specimens of bryophytes—Arkansas and Missouri; 224 specimens of ferns—Malaya; 371 specimens of flowering plants—Mexico; 1,051 specimens of vascular plants—South Africa

DAHLGREN, R., London: specimen of *Juncus* (gift)

FIELD, DR. HENRY, Coconut Grove, Florida: 3 specimens of fungi (gift)

FISHERIES RESEARCH BOARD, London, Ontario, Canada: 15 specimens of flowering plants (gift)

FLORIDA AGRICULTURAL EXPERIMENT STATION, Gainesville: 43 specimens of *Zephyranthes* (exchange)

FOREST PRODUCTS LABORATORY, Madison, Wisconsin: 81 specimens of woody plants (exchange)

GIBSON, MRS. DOROTHY, Chicago: 82 specimens of vascular plants (gift)

GOTEBORGS BOTANISKA TRÄDGÅRD, Gothenburg, Sweden: 203 specimens of vascular plants (exchange)

GRAY HERBARIUM, Cambridge, Massachusetts: 109 specimens of ferns and fern allies (exchange)

GREGG, DR. CLIFFORD C., Valparaiso, Indiana: 5 specimens of cryptogams (gift)

HAWKES, DR. J. G., Birmingham, England: 292 specimens of vascular plants (gift)

ILLINOIS NATURAL HISTORY SURVEY, Urbana: specimen of *Trichomanes* (exchange)

ILLINOIS STATE MUSEUM, Springfield: specimen of *Heteranthera dubia* (exchange)

INSTITUTO NACIONAL DE PESQUISAS DA AMAZÔNIA, Belém, Brazil: 63 specimens of Lentibulariaceae (gift)

JAMAICA, THE INSTITUTE OF, Kingston, British West Indies: 61 specimens of vascular plants (exchange)

KAUSEL, DR. EBERHARD, Santiago, Chile: 42 specimens of flowering plants (exchange)

MAGILL COLLEGE HERBARIUM, Montreal, Quebec, Canada: 3 specimens of flowering plants (gift)

MAHESHWARI, PROFESSOR P., Delhi, India: vial of *Lemna paucicostata* and vial of *Wolffia microscopica* (gift)

MINISTERIO DE AGRICULTURA, Santiago, Chile: 23 photographs of palms (gift)

MINNESOTA, UNIVERSITY OF, Minneapolis: 115 specimens of vascular plants (exchange)

MONTREAL, UNIVERSITY OF, Montreal, Quebec, Canada: 117 specimens of vascular plants (exchange)

MUSÉUM NATIONAL D'HISTOIRE NATURELLE, Paris: 127 specimens of mosses (exchange)

NATURHISTORISCHES MUSEUM, Vienna, Austria: 100 specimens of cryptogams (exchange)

NELSON, DR. EDWARD M., Chicago: 20 specimens of flowering plants (gift)

NEW YORK BOTANICAL GARDEN, New York: 289 specimens of vascular plants (exchange)

PALSER, DR. BARBARA F., Chicago: 21 specimens of Ericaceae and 5 specimens of miscellaneous flowering plants (gift)

PFISTER, PROFESSOR A., Concepción, Chile: 10 specimens of vascular plants (exchange)

SANDERSON, MILTON W., Urbana, Illinois: 58 specimens of vascular plants (gift)

SHERFF, DR. EARL E., Hastings, Michigan: 35 specimens of flowering plants (gift)

SMITH, DR. C. EARLE, JR., Oak Park, Illinois: 1,101 specimens of flowering plants (gift)

SOUKUP, J., Lima, Peru: 14 specimens of flowering plants (gift)

SWINK, FLOYD A., Willow Springs, Illinois: 236 specimens of vascular plants (gift)

SYLVESTER, C. A., Evanston, Illinois: 81 specimens of flowering plants (gift)

TIFFANY, DR. HANFORD, Evanston, Illinois: 10 specimens of flowering plants (gift)

UNIVERSIDAD AUTONOMA DE SAN LUIS POTOSI, San Luis Potosi, Mexico: 86 specimens of vascular plants (exchange)

WATSON, JOSEPH, New Albany, Indiana: 240 specimens of vascular plants (exchange)

WEBB, DR. EDWARD F., Skokie, Illinois: 77 specimens of vascular plants and 17 specimens of cryptogams (gift)

WILLIAMS, DR. LOUIS O., Beltsville, Maryland: 3 specimens of *Tetrorchidium* and 25 pamphlets (gift)

WILSON, ARCHIE F., Summit, New Jersey: 57 wood specimens (exchange)

WISCONSIN, UNIVERSITY OF, Madison: 288 specimens of vascular plants (exchange)

YALE UNIVERSITY, SCHOOL OF FORESTRY, New Haven, Connecticut: 91 wood samples and 23 specimens of wood plants (exchange)

DEPARTMENT OF GEOLOGY

ALF, RAYMOND, Claremont, California: fragments of fossil mammals and reptiles—Nebraska (gift)

AMERICAN MUSEUM OF NATURAL HISTORY, New York: fossil-fish fragments—Ohio (exchange)

ANONYMOUS: fragments of fossil mammals—Greece (gift)

BALDWIN, MRS. FAITH E., Chicago: opal locket (gift)

BERRY, DR. S. STILLMAN, Redlands, California: fossil clam and snails—Montana (gift)

BLACKBURN, JOSEPH, El Paso, Texas: fossil tooth of shark—Texas (gift)

BURG, E., Chicago: native copper—Wisconsin (gift)

CANRIGHT, DR. JAMES E., Bloomington, Indiana: fossil insect—Nova Scotia (gift)

CARR, R. (address lacking): cephalopod—Texas (gift)

CHICAGO NATURAL HISTORY MUSEUM: Collected by Dr. Robert H. Denison and Orville L. Gilpin (Idaho Paleontological Field Trip, 1959): fossil invertebrates and fossil fishes—British Columbia

Collected by Albert W. Forslev (Southwest Mineralogical Field Trip, 1959): minerals and insect-bearing concretions—California

Collected by Dr. John W. Thieret (Northern Great Plains Botanical Field Trip, 1959): fossil gastropod—Canada

Collected by William D. Turnbull and Ronald J. Lambert (Wyoming Paleontological Field Trip, 1959): fossil invertebrates and fossil vertebrates—Wyoming

Purchase: Robert Somerville Collection of fossil mammals—China

Transfer: fossil snail—from Department of Zoology, Chicago Natural History Museum (see Annual Report 1958, page 73 [nonmarine shells collected by the late A. C. Billups] and page 122 [Accessions, Department of Zoology, "Purchases"])

CHRISTENSEN, EARL, Hammond, Indiana: mineral (gift)

DARROW, DAVID L., Peoria, Illinois: fossil coral—Illinois (gift)

DOERRER, MRS. ETHEL, Tinley Park, Illinois: fossil shrimp and trilobites—various localities (gift)

DREGER, PETER H., Chicago: trilobite—Illinois (gift)

HAHN, ARTHUR, Chicago: fossil cephalopod—Illinois (gift)

HENDERSON, DR. EDWARD P., Washington, D.C.: slice of Bonita Spring meteorite—Florida (gift)

HINDS, HAROLD, Portland, Oregon: partial skeleton of fossil salamander—Oregon (gift)

HOUGH, DR. JEAN, Brooklyn: fossil leg-bone of mammal (*Arctoryctes galbreathi*)—North Dakota (gift)

HOUSTON, ROBERT E., Greenville, Mississippi: fossil-mammal fragments and mineral—from bed of Mississippi River (gift)

JAHNS, WILLIAM (address lacking): fragments of fossil mammal—Illinois (gift)

JOHNSON, JOSEPH L., Peoria, Illinois: fossil coral—Illinois (gift)

KONIZESKI, DR. RICHARD, Missoula, Montana: fragments of fossil mammals and fossil lizard scute—Montana (gift)

LEUTZE, DR. WILLARD P., Richmond, Indiana: eurypterids and fossil fishes—various localities (gift)

LIPKOWITZ, IRVING, New Rochelle, New York: minerals—various localities (gift)

LUBKING, MR. AND MRS. JOHN, Du-cor, California: fossil snails—California (gift)

MOORE, MICHAEL, Hinsdale, Illinois: fossil fishscale and anthracite coal (gift)

MUSEO CIVICO DI STORIA NATURALE DI MILANO, Milan, Italy: fossil fishes—Italy (open exchange)

NICHOLAS, ALBERT, Chicago: mineral—Poland (gift)

NIELSEN, DR. EIGEL, Copenhagen, Denmark: cast of skull of Eocene turtle (gift)

PIVORUNAS, AUGUST, Chicago: fossil pelecypods—Illinois (gift)

RICHARDSON, DR. EUGENE S., JR., Gurnee, Illinois: fossil fishes and fossil plants—Illinois (gift)

SEIFERT, MARTIN, Carrollton, Texas: fossil invertebrates—Texas (gift)

THATCHER, MRS. C. E., Brookfield, Illinois: mineral (gift)

TRICOMI (full name lacking), Chicago: mineral—Ontario (gift)

WHITFIELD, DR. AND MRS. ROBERT H., Evanston, Illinois: fossil plants—various localities (gift)

WILLIAM J. CHALMERS CRYSTAL FUND: minerals—various localities (purchase)

WILMER, R. E., Aiken, South Carolina: mineral chip—North Carolina (gift)

WOLLIN, JAY, Morton Grove, Illinois: echinoid spines—Kansas (gift)

ZANGERL, DR. RAINER, Hazelcrest, Illinois: casts of five turtles (*Glarichelys knorri*) (gift)

DEPARTMENT OF ZOOLOGY

ACADEMY OF SCIENCES, ZOOLOGICAL INSTITUTE, Leningrad, U.S.S.R.: 62 reptiles and amphibians—Central and Western Asia (U.S.S.R.) (exchange)

AMERICAN MUSEUM OF NATURAL HISTORY, New York: 2 birds—Argentina and Brazil (exchange); 186 reprints (for Reprint Library, Division of Mammals) (exchange)

ANDRIS, MISS SOPHIE, Chicago: fox squirrel—Illinois (gift)

BARBOSA, IVETE, Pernambuco, Brazil: 50 inland shells—Brazil (gift)

BASCH, PAUL F., Ann Arbor, Michigan: 25 nonmarine snails—Guatemala (gift)

BEETLE, MRS. DOROTHY E., Laramie, Wyoming: 130 nonmarine landshells—Bighorn Mountains (gift)

BERRY, DR. S. STILLMAN, Redlands, California: 763 snails and clams—western North America (gift)

BIRABEN, DR. M. I. HYLTON SCOTT DE, La Plata, Argentina: 7 lots of landshells—Argentina (exchange)

BLAKE, MISS PEGGY, Evanston, Illinois: bird—Illinois (gift)

BOKERMAN, DR. WERNER C. A., São Paulo, Brazil: 111 reptiles and amphibians—Brazil and Argentina (exchange)

BOTT, MRS. W. G., Arlington Heights, Illinois: 59 sets of seashells—Florida and West Indies (gift)

BRAND, DR. LOUIS, Houston: seashell—Australia (exchange)

BRIGGS, DR. JOHN C., Vancouver, British Columbia, Canada: fish—Mexico (gift)

BRITISH MUSEUM (NATURAL HISTORY), London: 3 frogs—Borneo (exchange); 219 reprints (gift to Reprint Library, Division of Mammals)

BURCH, MRS. ROSE, Los Angeles: cowry—Cook Islands (gift)

BURKHART, MRS. HARRIET, Union City, Pennsylvania: 17 shells—Jamaica (gift)

CALIFORNIA ACADEMY OF SCIENCES, San Francisco: frog—Ryukyu Islands (exchange)

CALIFORNIA AT LOS ANGELES, UNIVERSITY OF, Los Angeles: approximately 900 fishes—various localities (gift)

CAMPOS R., DR. FRANCISCO, Guayaquil, Ecuador: 5 bats—Ecuador (gift)

CARNEGIE MUSEUM, Pittsburgh: 149 birds—various localities (exchange)

CHACE, EMERY P., San Diego: 30 land-snails—Clipperton and Guadeloupe (gift)

CHADBOURNE, MRS. EMILY CRANE, Washington, D.C.: 8 paintings by chimpanzees, 2 paintings by a child (gift)

CHICAGO NATURAL HISTORY MUSEUM: Collected by Emmet R. Blake (Con-over Peru Expedition, 1958): 35 fishes, 8 reptiles and amphibians, 978 bird-skins, 8 mammals—Peru

Collected by D. Dwight Davis (Malaya Zoological Field Trip, 1958-59): approximately 200 lower invertebrates, 98 reptiles and amphibians, 13 mammals—Singapore and Malaya

Collected by Henry S. Dybas and Dr. Alan Solem (Panama Zoological Field Trip, 1959): approximately 7,000 lower invertebrates, approximately 22,000 insects and allies, 40 reptiles and amphibians—Panama and Canal Zone

Collected by Dr. Fritz Haas (Great Smokies Zoological Field Trip, 1959): 26 lots of inland shells—North Carolina

Collected by Dr. Robert F. Inger (Belgian Congo Zoological Expedition, 1959): 15 frogs—Belgian Congo

Collected by D. S. Rabor (Philippine zoological field work, 1959): 85 reptiles and amphibians, 2,015 birds—Luzon

Collected by Dr. John W. Thieret (Northern Great Plains Botanical Field Trip, 1959): 2 fishes—Canada

Collected by William D. Turnbull (Wyoming Paleontological Field Trip, 1959): horse skeleton, sheep skeleton, horse skull—Washakie Basin

Collected by Kjell von Sneidern (Colombia Zoological Expedition, 1958): 851 ectoparasites, 421 birds, 336 mammals—Colombia

Collected by Rupert L. Wenzel and Rodger D. Mitchell (Guatemala Zoological Expedition, 1948): 12,791 insects—Guatemala

Collected by Loren P. Woods (local field work, 1959) 15 fishes—Lake Michigan; (Co-operative Field Work with United States Fish and Wildlife Service in the West Indies, 1959) 2,298 fishes—West Indies, 3 birds—Florida Straits

Purchases: 38 mammals; 604 birds, 13,270 insects, 338 fishes, approximately 25,000 reptiles and amphibians, approximately 72,000 lower invertebrates

CHICAGO ZOOLOGICAL SOCIETY, Brookfield, Illinois: 6 reptiles and amphibians, 2 birds, 11 mammals—various localities (gift)

CHIN, PHUI KONG, Jesselton, North Borneo: 104 fishes, 17 frog larvae—North Borneo (gift)

CINCINNATI, UNIVERSITY OF, Cincinnati: 2 birds—Chili (exchange)

COBB, N. A., AND DEAN L. MURRAY, Battle Creek, Michigan (Cobb-Murray Expedition to India, 1958): 25 birds, 46 mammals—India (gift)

COLLINGS, STEVE, Rockville, Indiana: about 200 millipedes—Indiana (gift)

COLORADO, UNIVERSITY OF, Boulder: 62 nonmarine snails—worldwide (gift)

DARNELL, DR. R. M., Milwaukee: approximately 4,300 lower invertebrates—Louisiana (gift); 5 fishes—Wisconsin (gift)

DOMINION MUSEUM, Wellington, New Zealand: 3 birds—New Zealand (gift)

DONOVAN, J. W., Palm Beach, Florida: snail—Tanganyika (gift)

EIGSTI, W. E., Hastings, Nebraska: 19 fleas, 4 ticks—Nebraska (gift); 1 bird—Borneo (gift)

EYERDAM, WALTER J., Seattle: 2 lots of pearly freshwater mussels—Washington (gift)

FARBER, MRS. MAUDE A., Beverly Hills, Illinois: duck-billed platypus—New South Wales (gift)

FIELD, DR. HENRY, Coconut Grove, Florida: 2 landshells—Arabia (gift)

FLEMING, DR. ROBERT L., Kathmandu, Nepal: 110 birdskins—Nepal (gift)

FLORIDA STATE BOARD OF CONSERVATION MARINE LABORATORY, St. Petersburg: 3 fishes—off Florida (gift)

FRENCH, N. R., Idaho Falls, Idaho: 7 birds, 1 mammal—Ecuador (gift)

FUCHS, L. H., Downers Grove, Illinois: 2 pairs of deer antlers—Philippine Islands (gift)

GRAYBEAL, RICHARD, Great Lakes, Illinois: about 250 nonmarine shells—Idaho and California (gift)

GREGG, DR. CLIFFORD C., Valparaiso, Indiana: 17 insects—Europe (gift)

HENDRICKSON, DR. JOHN R., Singapore, Malaya: 1 fish, 98 frogs, 12 turtles—Malaya (gift)

HERSHKOVITZ, PHILIP, South Holland, Illinois: 180 reprints (gift to Reprint Library, Division of Mammals)

HOGER, C. E., St. Louis: 6 landshells—Illinois (gift)

HOOGSTRAAL, HARRY, Cairo, Egypt: 221 insects—Near and Middle East, Portugal, Egypt, North Africa, and Brazil (gift); 145 reptiles and amphibians, 859 birds, 202 mammals—Egypt (gift)

HOY, GUNNAR, Salta, Argentina: 408 birds—Argentina (gift)

HUBRICH, LESLIE, Catonsville, Maryland: 27 landshells—New York (gift)

HURD, DR. PAUL D., JR., Berkeley, California: 11 bees—United States and Central and South America (gift)

INAHARA, NOBUO, Osaka, Japan: 109 histerid beetles—Japan (exchange)

INSTITUT ROYAL DES SCIENCES NATURELLES DE BELGIQUE, Brussels: 2,185 frogs—Belgian Congo (exchange)

JACKSON, RALPH W., Cambridge, Maryland: approximately 100 nonmarine mollusks—worldwide (exchange)

KALINOWSKI, CELESTINO, Iquitos, Peru: 397 insects—Peru (gift)

KENNEDY, MISS BESS, Grafton, West Virginia: pair of miniature ivory dogs carved by Carl E. Akeley (gift)

KNULL, DR. J. N., Columbus, Ohio: 27 beetles—southwestern United States (gift)

KOOPMAN, DR. KARL, Chicago: 45 reprints (gift to Reprint Library, Division of Mammals)

KOSSWIG, DR. C., Hamburg, Germany: 8 lizards—Iraq (exchange)

KOVACIK, FRANK, Indian River City, Florida: scarab beetle—Florida (gift)

KRAUSS, DR. N. L. H., Honolulu: 21 histerid beetles—Ceylon (exchange); 51 reptiles and amphibians—Washington, Panama, New Caledonia, New Hebrides, India, Ceylon, Indochina, and Philippine Islands (gift); 1 eel—Panama (gift)

KUNTZ, DR. ROBERT E., care of APO, San Francisco: 497 reptiles and amphibians—Formosa, Orchid Island (near Formosa), and Philippine Islands (exchange); 809 mollusks—Formosa (gift)

LAIRD, DR. MARSHALL, Quebec, Canada: 36 lizards—Tokelau (gift)

LIEM, DR. KAREL F., Urbana, Illinois: 46 frogs—Java (gift)

LINCOLN PARK ZOO, Chicago: 2 reptiles, 1 bird, 2 mammals—various localities (gift)

LOPES, H. DE SOUSA, Rio de Janeiro, Brazil: 30 inland shells—Brazil (gift)

MALARIA SURVEY AND CONTROL BRANCH, Fort Clayton, Panama Canal Zone: 427 batflies—Panama (gift)

MANY, MASTER CHARLES, New Orleans: 12 landsnails—North Carolina (gift)

MAUER, MRS. J. T., Chicago: 16 moths—Michigan (gift)

MCMANARA, MRS. R. E., Kirkwood, Missouri: 68 mollusks—Missouri (gift)

MICHIGAN, UNIVERSITY OF, MUSEUM OF ZOOLOGY, Ann Arbor: 21 landsnails—Central and South America (exchange); 6 fishes—Mexico (exchange)

MITCHELL, DR. RODGER D., Gainesville, Florida: 3 watermites—Vermont (gift)

MOSELEY, MRS. SPENCER, Barrington, Illinois: snailshell—Australia (exchange)

MUSÉE ROYAL DU CONGO BELGE, Tervuren, Belgium: 57 fishes—Belgian Congo (exchange); 48 frogs—Belgian Congo and Angola (exchange)

MUSEO ARGENTINO DE CIENCIAS NATURELES, Buenos Aires, Argentina: bird—Argentina (exchange)

MUSEO CIVICO DI STORIA NATURALE, Genoa, Italy: 7 frogs, 5 lizards—Burma, Indo-Australia, and Uganda (exchange)

MUSEUM AND ART GALLERY, Durban, Union of South Africa: 127 birds—South Africa (exchange); 3 birds—South Africa (gift)

MUSEUM G. FREY, Munich, Germany: 208 beetles—Palearctic Region (exchange)

MUSEUM OF COMPARATIVE ZOOLOGY, Cambridge, Massachusetts: bird—Panama (exchange)

PARK, DR. ORLANDO, Evanston, Illinois: 658 birds, 690 mammals—United States (gift)

PARKER, MRS. WINTON, Kirkwood, Missouri: 20 mollusks—Missouri (gift)

PASTEUR, DR. GEORGES, Rabat, Morocco: 64 reptiles and amphibians—French Morocco (exchange)

PERRET, DR. JEAN-LUC, Foulassi Sangmelima, Cameroun, French West Africa: 15 frogs—West Africa (exchange); 2 frogs—West Africa (gift)

PFaff, DR. REINALDO, Cartagena, Colombia: 46 shells—Colombia (gift)

PLATH, KARL, Oak Park, Illinois: bird—Philippine Islands (gift)

POPE, MRS. HENRY, Glencoe, Illinois: approximately 2,000 marine shells—Bahama Islands (gift)

RAGEAU, DR. JEAN, Noumea, New Caledonia: 100 snails—New Caledonia and Wallis Islands (gift)

RAWLINSON, KIM T., Greencastle, Indiana: 8 fishes—Indiana (gift)

REBELL, DR. GERBERT, New Brunswick, New Jersey: 3 albino rats—locality unknown (gift)

REIFSTECK, WERNER, New Haven, Indiana: 26 snails—Illinois (gift)

ROSCOE, ERNEST J., Chicago: approximately 1,000 landsnails—western United States (gift)

SANBORN, COLIN C., Marcella, Arkansas: fox—Arkansas (gift)

SARAWAK MUSEUM, Kuching: 13 frogs—Sarawak (exchange)

SAUER, DR. J. D., Madison, Wisconsin: 40 snails—Mauritius (gift)

SCHWENGEL, DR. JEANNE S., Scarsdale, New York: approximately 4,000 lower invertebrates—worldwide (gift)

SCRIPPS INSTITUTION, La Jolla, California: 71 fishes—Mexico (gift)

SEA FISHERIES RESEARCH STATION, Haifa, Israel: 16 fishes—Mediterranean Sea and Red Sea (gift)

SEEVERS, DR. CHARLES H., Glen Ellyn, Illinois: 581 beetles—Africa and New World Tropics (gift)

SHEDD AQUARIUM, JOHN G., Chicago: 3 fishes—Iowa (gift)

SIMMONS, FRANK E., Oglesby, Texas: 16 inland mollusks—Texas (gift)

SMETANA, DR. A., Praha, Czechoslovakia: 109 beetles—Europe (exchange)

SOLEM, DR. ALAN, Oak Park, Illinois: approximately 9,500 mollusks—worldwide (gift)

SPRINGER, DR. VICTOR G., St. Petersburg, Florida: 99 fishes—various localities (gift)

STUGREN, DR. BOGDAN, Cluj, Roumania: 48 reptiles and amphibians—Romania (exchange)

SUMMERS, RAY, Petaluma, California: 12 seashells—worldwide (exchange); 3 cowrie shells—Easter Island and Philippine Islands (gift)

SUTER, WALTER, AND JOHN A. WAGNER, Evanston, Illinois: 10,919 featherwing beetles—eastern United States (gift)

TALMADGE, ROBERT, Willow Creek, California: 120 nonmarine snails—California (gift)

TESKEY, MRS. MARGARET, Marinette, Wisconsin: 2 landsnails—Tennessee (gift)

THOMAS, MR. W. D., Balboa, Panama Canal Zone: 23 sets of nonmarine snails—British Honduras (gift)

TRAYLOR, MELVIN A., JR., Winnetka, Illinois: 37 landshells—Tripoli and Libya (gift)

UNITED STATES FISH AND WILDLIFE SERVICE, Rogers City, Michigan: 2 fishes—Michigan; Washington, D.C.: 5 fishes—Atlantic Ocean (gift)

UNITED STATES NATIONAL MUSEUM, Washington, D.C.: 187 landsnails—

Venezuela and Colombia (exchange); 109 fishes—various localities (exchange); 56 reprints (gift to Reprint Library, Division of Mammals)

WAGNER, JOHN A., Riverside, Illinois: 454 butterflies and moths—United States and Mexico (gift)

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| Igoe, Michael L. | Johnston, Mrs. Hubert McBean | Kemper, James S. |
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| Ilg, Robert A. | Johnston, Mrs. M. L. | Kempner, Stan |
| Ilg, Paul F. | Jolly, Miss Eva Josephine | Kendrick, John F. |
| Illich, George M., Jr. | Jonak, Frank J. | Kennedy, Mrs. E. J. |
| Ingalls, Allin K. | Jones, Dr. Fiske | Kennedy, Lesley |
| Ingersoll, Roy C. | Jones, Gordon M. | Kenney, Clarence B. |
| Ingersoll, Mrs. S. L. | Jones, James B. | Kenny, Henry |
| Ingram, Frank H. | Jones, Dr. Margaret M. | Kent, Robert H. |

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- Kern, Mrs. August
 Kern, H. A.
 Kern, Dr. Nicholas H.
 Kern, Trude
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 Kettering, Mrs.
 Eugene W.
 Ketzler, A. C.
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 Kidwell, L. B.
 Kiefer, Dr. Joseph H.
 Kiessling, Mrs. Charles S.
 Kile, Miss Jessie J.
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 Kimball, William W.
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 Andrews
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 Paula
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 Koch, Raymond J.
 Koch, Robert J.
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 Elizabeth Thompson
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 Howard G.
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 Kraft, John H.
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 Kuehne, E. Richard
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 Kuhn, Dr. Hedwig S.
 Kunka, Bernard J.
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 Kunstadter, Sigmund W.
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 Athenison
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 Milton L.
 Lizzardo, Joseph F.
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 Lodge, Robert H.
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 Loewenberg, M. L.
 Loewenherz, Emanuel
 Loewenstein, Richard M.
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 Loomis, Reamer G.
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 Donald

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 Martin, Samuel H.
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 Marzola, Leo A.
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 Masse, B. A.
 Masterson, Peter
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 Meyer, Charles Z.
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 Elizabeth W.
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 Charles
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 Carroll Dean, Jr.
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 Murphy, O. R.
 Murphy, Robert E.
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 Naumann, Miss Susan
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 Nelson, Charles G.
 Nelson, James S.
 Nelson, Victor W.
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 Neumann, Arthur E.
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 Newberger, Joseph
 Michael
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 Hermien D.
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 O'Connell, Edmund
 Daniel
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 Oppenheimer, Seymour
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 O'Rourke, Mrs. Harry J.
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 Ostrom, Mrs. J. Augustus
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 Otis, Peter Witherspoon
 Otis, Stuart Huntington
 O'Toole, Donald
 Ott, Mrs. Fentress

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|--------------------------------|------------------------------------|-------------------------------------|
| Ott, John Nash, Jr. | Philipsborn, Herbert F., Sr. | Purcey, Victor W. |
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| Paasche, Jens A. | Phillips, Dr. Herbert Morrow | Quick, Miss Hattiemae |
| Packard, Dr. Rollo K. | Phoenix, George E. | Quigley, Jack A. |
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| Page, John W. | Pierce, J. Norman | Racheff, Ivan |
| Pallasch, Dr. Gervaise P. | Pierce, Paul, Jr. | Radebaugh, Richard J. |
| Palm, Felix | Pierion, Joseph B. | Radford, Mrs. W. A., Jr. |
| Palmer, James L. | Pillsbury, Mrs. C. S. | Radovich, Miss Bessie |
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| Pandaleon, Costa A. | Pirie, Mrs. Gordon L. | Raftree, Miss Julia M. |
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| Parker, Norman S. | Plummer, Comer | Raney, Mrs. R. J. |
| Parker, Troy L. | Plunkett, Paul M. | Rankin, Miss Jessie H. |
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| Pellettieri, Dr. D. J. | Potts, Albert W. | Reinecke, Lester W. |
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| Perkins, Harry D. | Pray, Max | Renshaw, Mrs. Charles |
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Theodore W., Jr.
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Clifford
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Rolnick, Dr. Harry C.
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Rosenbaum, Mrs.
Harold A.
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Rosenstone, Samuel
Rosenthal, J. F.
Rosenthal, M. A.
Rosenthal, Samuel R.
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Ross, Thompson
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Hochsinger
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William
Rothschild,
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Salk, Erwin A.
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Schneider, F. P.
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Schwartz, Charles K.
Schwartz, Charles P.
Schwartz, Joseph H.
Schwartz, Dr. Otto
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Scott, Willis H.
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Scribner, Gilbert H., Jr.
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Searle, William L.
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Sears, J. Alden
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Seaverns, Louis C.
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See, Dr. Agnes Chester
Seeburg, Justus P.
Seeburg, Noel M., Jr.
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Seipp, William C.
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Serota, Dr. H. M.
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Sharp, Carl J.
Sharrow, H. N.
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Shaw, John I.
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Shepherd, Miss Olive M.
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 De Witt
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 Thomas
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 Silberman, David, Jr.
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 Silberman, N. M.
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 Sills, Clarence W.
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 Sincere, Henry B.
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 Siragusa, Ross D.
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 Skarrn, Kenneth W.
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 William A.
 Smith, Harold Byron
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 Dunlap
 Smith, J. P.
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 White
 Smith, Z. Erol

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 Snyder, Harry
 Snyder, Richard E.
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| Thompson | Nelson, Donald M. | |
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| | Mitchell, W. A. | |
| Hagerty, Kenneth A. | Niederhauser, Homer | Vas, Gabriel N. |
| Hanson, Martin W. | | Whipple, Miss Velma D. |
| Johnson, Dr. Sydney J. | Oates, James F., Jr. | |

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| Arenberg, Albert L. | Betts, David H. | |
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 Shields, G. A.
 Shilton, Earle A.
 Shine, Joseph J.
 Shipley, M. L.
 Shlaes, Harry L.
 Shlopach, Wallace B.
 Short, Charles F., Jr.
 Short, William H.
 Shrader, Frank K.
 Shuart, Karl P.
 Shuffitowski, Joseph T.
 Shriver, Robert
 Sargent, Jr.
 Shropshire, R. C.
 Sibley, Joseph C., Jr.
 Siebel, George E.
 Sieber, Paul E.
 Siebert, C. Stuart, Jr.
 Sierocinski, E. John
 Silber, Newton E.
 Silverthorne, Mrs. George
 Simmon, Dr. Nicholas M.
 Simmons, George H.
 Simmons, Nicholas L.
 Simon, Mrs. Arnold B.
 Simon, Charles H.
 Simon, George E.
 Simpson, Benjamin I.
 Simpson, John B.
 Sims, Edwin W., Jr.
 Singer, Leo
 Singer, Morris T.
 Sinnerud, Dr. O. P.
 Sippel, Edward A.
 Sitron, Dr. Harold H.
 Sittler, Dr. W. Walter
 Sivyver, Warner
 Skaff, Mrs. Ernest
 Sklar, N. Raoul
 Skudera, Mrs. Marie
 Slasor, Floyd
 Sloan, Dr. Jack H.
 Sloan, Dr. Noah H.
 Smaha, O. O.
 Smalley, B. L.
 Smalley, Dr. Charles J.
 Smalley, John H.
 Smick, Robert W.
 Smith, Bernard Peacock
 Smith, Bruce M.
 Smith, C. D.
 Smith, Charles L.
 Smith, Curtis
 Smith, F. Gordon
 Smith, George P. F.
 Smith, H. Kellogg
 Smith, H. William
 Smith, Harold A.
 Smith, John F., Jr.
 Smith, Miss Marie A.
 Smith, Mrs. Raymond F.
 Smith, Robert C.
 Smith, Mrs. Solomon B.
 Smyth, David B.
 Snitoff, Howard J.
 Snodell, Walter S., Jr.
 Snyder, Bernard
 Snyder, Bernard A.
 Snyder, Franklin Bliss, Jr.
 Soanes, Dr. Sidney V.
 Sollitt, Sumner S.
 Solomon, Ezra
 Somerville, Mrs. William
 Sommers, Bert Edward
 Sonderby, Max E.
 Sonne, Fred T.
 Sonoda, Miss Louise
 Soper, Taylor G.
 Sorock, Herbert S.
 Sorrelle, E. Courtney
 Spangler, James C.
 Spanik, Miss Anne
 Spanjer, Henry J., Jr.
 Sparberg, Sidney J.
 Spark, David I.
 Spaulding, J. B.
 Specht, Mrs. F. W.
 Speigel, Dr. I. Joshua
 Spencer, Mrs. Humphrey Orr
 Spencer, Mrs. I.
 Spencer, William N.
 Sperry, Mrs. Albert T.
 Sperry, Oliver R.
 Spertus, Philip
 Spiegler, Miss Katherine J.
 Spiehler, Adolph F.
 Spielmann, Willson
 Spitz, Lawrence S.
 Spitz, Milton J.
 Spooner, William
 Spreyer, F. L.
 Sprtel, Dr. Simon L.
 Squire, D.
 Staat, Richard A.
 Stafford, Byron C.
 Stafford, Charles M.
 Stafford, Richard W.
 Stafford, Dr. Wilma C.
 Stagman, Nathan
 Stagman, Dr. Joseph
 Stahl, John
 Stahl, T. R.
 Stair, H. Bowen
 Stanbery, J. N.
 Stang, J. I.
 Stanley, E. V.
 Stannard, F. J.
 Stanton, Mrs. Francis R.
 Stanton, John W.
 Stark, Ralph W.
 Starrett, Miss Carolyn J.
 Starshak, A. L.
 Stauffacher, E. L.
 Stavenhagen, Fred A.
 Stavish, Emanuel G.
 Steadry, Frederick O.

ANNUAL MEMBERS (CONTINUED)

- Steans, Dr. George L.
 Stearns, Walter
 Stebler, W. J.
 Steele, Mrs. Walter D.
 Stefany, Henry
 Steffen, Charles
 Steigmann, Dr.
 Frederick
 Stein, Mrs. Louise K.
 Stein, Melvyn E.
 Stein, Milton
 Steiner, Miss Joanne
 Steinmann, Mrs. F. H.
 Steins, Mrs. Halsey
 Steitz, Mrs. Dorothy J.
 Stekly, Harold
 Stenhouse, Miss
 Bessie C.
 Stephan, Edmund A.
 Stephens, Mrs. Arthur I.
 Stephens, Dr. Natalie
 Stephens, W. R., Jr.
 Sterling, James R.
 Stern, John W.
 Stern, Herbert L.
 Stern, Herbert L., Jr.
 Stern, Lawrence F.
 Stern, Russell T.
 Sternberg, Edward
 Sternstein, Edward
 Stetson, William C.
 Steuer, Mrs. Joseph True
 Stevens, John Paul
 Stevenson, Mrs. Borden
 Stevenson, M. Bradley
 Stewart, Charles L., Jr.
 Stewart, George W.
 Stewart, Lynn
 St. George, George Q. M.
 Stiggleman, James H.
 Stiglitz, Reuben
 Stikkers, Alex
 Stind, C. J.
 Stirling, Miss Dorothy
 Stitt, Robert B.
 Stix, Lawrence C., Jr.
 Stoaks, Richard O.
 Stocker, Frederick B., Jr.
 Stockton, Joseph D.
 Stoffels, Edgar O.
 Stofft, Edmond B.
 Stoker, Nelson D.
 Stokesberry, Paul W.
 Stolar, Burton I.
 Stoll, Mrs. John Otto
 Stollery, Mrs. Harry
 Stolz, Leon
 Stone, Mrs. E. J.
 Stone, Elmer
 Stone, Dr. F. Lee
 Stone, Herbert Stuart
 Stone, J. McWilliams
 Stone, Marvin N.
 Stonehouse, Elmer H.
 Stophlet, William G.
 Storer, E. W.
 Storey, Smith W.
 Storkan, Mrs. James
 Stormont, Dr. D. L.
 Stout, Frederick E.
 Stover, Frank C.
 Strand, Clifford E. R.
 Strandjord, Dr. Nels M.
 Strathearn, Donald, Jr.
 Stratton, Robert C.
 Straus, Robert E.
 Straus, Mrs. Robert E.
 Streicher, I. H.
 Streitmann, Albert P.
 Stresen-Reuter, A. P.
 Stresenreuter, Mrs.
 Charles H.
 Strojny, Eugene
 Stryck, Paul W.
 Stuart, Lyman J.
 Stuart, William M.
 Stubenrauch, E. H.
 Stucker, Dr. Fred J.
 Stuckslager, Walter N.
 Study, Dr. Robert S.
 Stuebner, Edwin A.
 Sturm, Arthur
 Sullivan, Eugene T.
 Sullivan, Frank W.
 Sullivan, J. E.
 Sulzberger, Mrs.
 Frank L.
 Sundt, E. V.
 Sunter, William D.
 Sutter, William P.
 Suyker, Hector
 Svec, Anton E.
 Svensson, Olof
 Swan, Jack
 Swanson, H. G.
 Swanson, Harry R.
 Swanson, K. G.
 Sweeney, David B.
 Sweet, Mrs. Carroll
 Sweet, Lisle W.
 Swenson, R. E.
 Swett, Israel
 Swift, Phelps Hoyt
 Swift, T. Philip
 Swoskin, Dr. Irving
 Symons, Walter A.
 Sywulka, Mrs. Paul
 Szymanski, Dr.
 Frederick J.
 Taaffe, C. R.
 Tabin, Mrs. Adrian
 Tabin, Mrs. Albert
 Tabin, Seymour
 Taft, Mrs. John Ailes
 Talbot, Mrs. C. Conover
 Talbot, Dr. Eugene S.
 Tallman, Philip
 Tanan, Stanley J.
 Tannenbaum, Saul O.
 Tarnopol, Emil
 Tarrson, Albert J.
 Tatge, Paul W.
 Taub, Charles
 Taussig, Mrs. J. Thomas
 Taylor, Mrs. A. Thomas
 Taylor, Fitzhugh
 Taylor, John R.
 Taylor, John W.
 Tecson, Joseph A.
 Tedrow, James W.
 Teichen, E. H.
 Teitel, Charles
 Teitelbaum, Joseph D.
 Telechansky, Morris S.
 Teller, Sidney A.
 Temple, Jack B.
 Temple, John
 Temps, Leupold
 Teninga, Alfred J.
 Tenney, Henry F.
 Terker, Sam
 Terrill, Dean
 Teshner, David
 Teter, Park
 Thal, Hugo J.
 Thatcher, Dr. Harold W.
 Thiele, George C.
 Thomas, G. Truman
 Thomas, Miss Martha
 Thomas, Norman L.
 Thomas, Parker W.
 Thompson, A. M.
 Thompson, H. Hoyt
 Thompson, Dr. John R.
 Thompson, Dr. W. V.
 Thon, Warren H.
 Thorek, Dr. Philip
 Thoren, Mrs. J. N.
 Thoresen, H. B.
 Thrasher, Dr. Irving D.
 Thullen, Henry M.
 Tice, Winfield
 Tilden, Merrill W.
 Tillotson, J. W.
 Tinsley, Dr. Milton
 Tippens, Mrs. Albert H.
 Todd, Mrs. E. L.
 Toggweiler, A. A.
 Tolpin, Dr. Samuel
 Tonk, Percy A.
 Toomin, Philip R.
 Topolinski, J. J.

ANNUAL MEMBERS (CONTINUED)

- Torgerson, Ray G.
 Towns, R. E.
 Trace, Master David R.
 Trace, Master Edward R.
 Trace, Dr. Herbert D.
 Trace, Master Peter A.
 Tracy, George C.
 Tracy, Dr. Paul C.
 Tracy, T. J.
 Tracy, Wheeler
 Tracy, Wilfred
 Trager, D. C.
 Train, Jack D.
 Trainor, H. J.
 Trainor, Mrs. Minita
 Traut, Bernard H.
 Travelletti, Bruno L.
 Traver, George W.
 Traynor, William
 Treadway, C. L.
 Treadwell, George P.
 Treffeisen, Gustave
 Tremper, Robert
 Trentlage, Richard B.
 Tresley, Dr. Ira J.
 Triggs, Warren
 Trimarco, Ralph R.
 Triner, Joseph
 Troeger, Louis P.
 Trom, Jacob
 Tubutis,
 Walter Stanley, Jr.
 Turk, Miss Dorothy
 Turek, A. O.
 Turgrimson, Charles D.
 Turner, Dr. Herbert A.
 Turner, Oliver S.
 Tyk, Warren G.
 Tyler, Mrs. Ivan L.
 Tyrrell, Miss Frances

 Ughetti, John B.
 Uhlmann, Richard F.
 Ullmann, S. E.
 Ulrich, Norman
 Ultsch, W. Lewis
 Unger, Mrs. Dan
 Urann, E. B.
 Urbach, Mrs. H. H.
 Urban, Andrew
 Uretz, Daniel A.
 Uretz, Sol
 Urnes, Dr. M. P.
 Ushijima, Mrs. Ruth
 Utz, Miss Martha

 Vacha, Dr. Victoria B.
 Vail, Mrs. Daniel M.
 Vail, Donald P.
 Vail, Dr. Derrick T.
 Vail, J. Dean, Jr.

 Van Buskirk, M. G.
 Vanderkloot, Dr. Albert
 Vander Kloot,
 Nicholas J.
 van der Meulen, John H.
 Vander Ploeg, Frank
 Vanderwicken, Mrs.
 Edwin P.
 Van Deventer,
 William E.
 Van Dyk, S. A.
 Van Etten, Floyd G.
 Van Gerpen, George
 Van Gorkom, Mrs. J. W.
 Van Kampen, A. H.
 Van Kirk, Mrs. R. D.
 Van Meer, Robert A.
 Van Moss, J. H., Jr.
 Van Ness, A. L.
 Van Nice, Errett
 Van Stanten, James
 Van Schaick, Mrs.
 Ethel R.
 Van Swearingen, Guy H.
 Varley, John S.
 Vasalle, Master David
 Vasalle, Rudolph A.
 Vaughn, Wilbert T.
 Velvel, Charles
 Velvel, H. R.
 Venerable, Mrs. James T.
 Venrick, Mrs. Charles F.
 Verhaag, Dr. Joseph E.
 Ver Nooy, Miss Winifred
 Vernon, Leroy N.
 Vetter, Paul G.
 Veverka, Dr. Frank J.
 Vick, Maurice B.
 Victorine, Vernon E.
 Vihon, Charles H.
 Vil, Dr. Charles S.
 Vilas, Mrs. Royal C.
 Vilsoet, William
 Vincenti, Anthony P.
 Vlcek, Dr. Anton J.
 Vogelback, Mrs.
 William E.
 Voigt, Mrs. Wilbur R.
 Voland, Richard E.
 Volkober, J. A.
 Vollmer, Karl F.
 Von Brauchitsch,
 Frederick C.
 Vondrasek, Earl A.
 Vonesh, Raymond J.
 Von Gehr, George
 Voosen, John C.
 Voris, Dr. Harold C.
 Voytech, Charles F.
 Vratny, Thomas J.
 Vyse, T. A. E.

 Wach, Dr. Edward C.
 Wachtel, Dr. Hans
 Wacker, Frederick G., Jr.
 Wagner, Mrs. David H.
 Wagner, John A.
 Wagoner, William F.
 Waitkus, E. Algerd
 Wajoy, Dr. Rose Mary
 Wakefield, Dr.
 Ernest H.
 Waldie, Benjamin D.
 Waldman, Dr. Albert G.
 Waldner, Arthur L.
 Waldo, C. Ives, Jr.
 Walgren, Lawrence C.
 Walker, Dr. Alfred O.
 Walker, Frank R.
 Walker, Mrs. India A.
 Walker, Dr. Maggie L.
 Walker, Reno R.
 Walker, Ward
 Walker, Wendell
 Walker, Mrs. William
 Ernest
 Wall, Dr. Frank J.
 Wall, Dr. James M.
 Wallenstein, Sidney
 Waller, Percy H.
 Wallerstein, David B.
 Wallgren, Eric M.
 Walling, Mrs.
 Willoughby G.
 Wallingford, Donald H.
 Wallis, Wayne
 Walters, Gary G.
 Waltman, C. E.
 Walz, John W.
 Wang, Dr. S. Y.
 Wanger, David E., Jr.
 Wanzer, H. Stanley
 Warady, Dr. Seymore C.
 Warde, Frederick A.
 Wardwell, H. F.
 Wardwell, H. F.
 Ware, James R.
 Ware, Mrs. Robert R.
 Ware, Mrs. Thomas M.
 Ware, Willis C.
 Warman, Winfield C.
 Warner, Mason
 Warner, Peter B.
 Warshawsky, Roy I.
 Warton, Frank R.
 Warwick, O. H.
 Washburn, Dr.
 Kenneth C.
 Wasick, Dr. Milan M.
 Wasson, Theron
 Waterbury, Donald O.
 Waterfield, John R.
 Waterman, Mrs. Alex H.

ANNUAL MEMBERS (CONTINUED)

| | | |
|--------------------------|--------------------------|------------------------|
| Watkins, Dr. Richard W. | Whall, Arthur L. | Winston, Farwell |
| Watling, John | Wheary, Warren | Winter, Mrs. Gibson |
| Watson, D. R. | Wheaton, David | Winter, Munroe A. |
| Watson, Norman E. | Wheeler, Mrs. Seymour | Winterbotham, John R. |
| Watt, Howard D. | Wheeler, W. L. | Wirth, J. W. |
| Watt, Richard F. | Whipple, Charles J. | Wise, John P. |
| Watts, Amos H. | White, John G. | Wise, Richard H. |
| Watts, G. W. | White, Marshall | Wise, Dr. Sidney S. |
| Waud, Morrison | White, Dr. Michael S. | Wiseman, William P. |
| Weatherby, George W. | White, Mrs. Nelson C. | Wishingrad, Dr. Lester |
| Weathers, Everett A. | White, Dr. Philip C. | Wishnick, Dr. |
| Weaver, Robert P. | White, Philip M. | Seymour D. |
| Webb, Dr. A. C. | Whitelock, John B. | Witherell, James |
| Webb, Dr. J. Lewis | Whiting, Lawrence H. | Witkowski, Dr. Lucjan |
| Weber, James E. | Whitney, Jack M., II | Witte, Lester |
| Weber, Miss Laura M. | Whittaker, Robert B. | Wittmann, Bernard H. |
| Weber, Paul W. | Wible, R. R. | Witty, Dr. Drake R. A. |
| Weber, Warren J. | Wickersham, Mrs. Lucille | Wlocholl, Arthur |
| Webster, Dr. Augusta | Wier, Grant H. | Wojnarowsky, Dr. |
| Webster, N. C. | Wiggins, Kenneth M. | Emilia |
| Weeks, Harrison S. | Wilbrandt, Robert A. | Wolbach, Murray, Jr. |
| Weeks, Kenneth L. | Wilby, A. C. | Wolf, Albert M. |
| Weick, George T. | Wilder, E. P., Jr. | Wolf, Dr. Ernest S. |
| Weidert, William C. | Wiles, Bradford | Wolf, C. W. |
| Weigen, Dr. Anders J. | Wilhelm, Eugene A. | Wolf, Morris E. |
| Weil, Mrs. Carl H. | Wilkes, Mrs. R. M. | Wolf, Orrin E. |
| Weil, David Maxwell | Willard, Nelson W. | Wolfe, Hubert J. |
| Weiner, Aaron B. | Willens, Dr. Samuel D. | Wolfson, Marvin J. |
| Weiner, Charles | Williams, Albert D. | Wood, A. E. |
| Weinress, Morton | Williams, Albert W. | Wood, Alexander M. |
| Weinress, S. J. | Williams, Bennett | Wood, Arthur M. |
| Weinstein, Harold | Williams, Mrs. | Wood, C. A. |
| Weintroub, Benjamin | Ednyfed H. | Wood, Harold F. |
| Weisdorf, Dr. William | Williams, Dr. Jack | Wood, Kenward T. |
| Weiser, Donald K. | Williams, Lynn A. | Wood, Philip J. |
| Weiss, Dr. Edward | Williams, Dr. O. B. | Wood, William A. |
| Weiss, Louis J. | Williams, Ralph E. | Wood, Mrs. William J. |
| Weiss, Norman L. | Williams, R. Arthur | Woodall, Lloyd |
| Weissman, Dr. Irving | Williams, Robert J. | Woods, Dr. A. W. |
| Wells, C. A. | Williams, Thomas L., Jr. | Woodson, William T. |
| Wells, D. P. | Willis, George H. | Woodward, George |
| Wells, Sidney | Willis, Ivan L. | Woolard, Francis C. |
| Welsh, Vernon M. | Willmarth, John H. | Woollett, Mrs. Jean |
| Wendell, F. Lee H. | Willy, Dr. Ralph G. | Woolpy, Max |
| Wendorf, Herman | Wilsey, Dr. H. Lawrence | Workman, S. L. |
| Wendt, Mrs. M. R. | Wilson, Allen | Works, Nelson C., Jr. |
| Wenger, R. L. | Wilson, | Worth, Dr. Theodore |
| Wenninger, William C. | Christopher W., Jr. | Worthington, La Grange |
| Wenzel, Alfred C. | Wilson, David M. | Worthy, James C. |
| Werner, Miss | Wilson, Dr. Earle E. | Wray, Franklin C. |
| Theresa M. | Wilson, E. W. | Wray, Glenn |
| Werrenrath, Reinald, Jr. | Wilson, Harold E. | Wreath, Robert L. |
| Wessel, Dean | Wilson, Robert H. | Wright, C. G. |
| Wessling, Richard | Wilson, Mrs. Roger V. | Wright, Dr. F. Howell |
| West, James D. | Wilson, Miss S. Edna | Wright, George L. |
| West, Richard H. | Windchy, Mrs. | Wright, Miss |
| West, Thomas F., Jr. | Frederick O. | Margaret J. |
| Westbrook, Charles H. | Wing, Wallace E. | Wrightson, William F. |
| Westley, Richard O. | Winkenweder, V. O. | Wulf, Miss Lydia |
| Wetherell, Warren | Winkler, Edward | Wybel, L. E. |
| Weyforth, B. Stuart, Jr. | Winsberg, Herbert H. | |

ANNUAL MEMBERS (CONTINUED)

| | | |
|------------------------|-------------------------|--------------------------|
| Wyne, Walter | Yost, Miss Karyl | Zelinsky, Mrs. S. F. |
| Wynne, Mrs. Lloyd | Young, C. S. | Zeller, Charles B. |
| Yager, Richard Sidney | Young, Dr. Donald R. | Ziegler, Dr. George E. |
| Yarnall, Frank H. | Young, George B. | Zielinski, Dr. Victor J. |
| Yates, P. L. | Young, J. L. | Zimmerman, Austin M. |
| Yavitz, Sidney M. | Young, Rollin R. | Zimmerman, Dr. |
| Yellin, Morris | Young, William T., Jr. | Harold W. |
| Yeoman, George W. | Youngren, W. W. | Zimmerman, Herbert |
| Yesnick, Dr. Louis | Yust, Walter | Zimmerman, Otto H. |
| Ylvsaker, L. | | Zimmermann, Frank O. |
| Yntema, Dr. Leonard F. | Zatz, Sidney R. | Zimmermann, Mrs. P. T. |
| Yohe, C. Lloyd | Zeitlin, Dr. N. S. | Zitz, Martin |
| Yonkers, Edward H. | Zeitlin, Samuel E. | Zitzewitz, Arthur F. |
| | Zekman, Dr. Theodore N. | Zoll, William F. |
| | | Zolton, Dr. Joseph |

DECEASED 1959

| | | |
|--------------------------|--------------------------|------------------------|
| Bard, Roy E. | Harza, Mrs. Leroy F. | Neff, Ward A. |
| Beck, Miss Elsa C. | Jennings, Ralph C. | Rappold, Samuel R. |
| Bremner, Dr. M. D. K. | Kane, Daniel Francis | Sayers, Leon D. |
| Cann, Isadore | Knowlson, J. S. | Sexton, Mrs. Thomas G. |
| Clark, Miss Herma | Latta, Dr. Philip R. | Varty, Leo G. |
| Diggs, Dr. N. Alfred | Mall, Arthur W. | Wenner, A. T. |
| Fasnacht, Rev. Walter L. | McCarty, M. F. | Zimmerman, Carl |
| Ferrara, Salvatore | Melchior, Roy F. | Ziv, Harry M. |
| Fischer, Mrs. Louis E. | Mordock, Mrs. Charles T. | |
| Frankenbush, O. E. | Myers, Miss Etha C. | |
| Fuller, Norman S. | | |

Articles of Incorporation

STATE OF ILLINOIS

DEPARTMENT OF STATE

WILLIAM H. HINRICHSEN, *Secretary of State*

TO ALL TO WHOM THESE PRESENTS SHALL COME, GREETING:

Whereas, a Certificate duly signed and acknowledged having been filed in the office of the Secretary of State, on the 16th day of September, A.D. 1893, for the organization of the COLUMBIAN MUSEUM OF CHICAGO, under and in accordance with the provisions of "An Act Concerning Corporations," approved April 18, 1872, and in force July 1, 1872, and all acts amendatory thereof, a copy of which certificate is hereto attached.

Now, therefore, I, William H. Hinrichsen, Secretary of State of the State of Illinois, by virtue of the powers and duties vested in me by law, do hereby certify that the said COLUMBIAN MUSEUM OF CHICAGO is a legally organized Corporation under the laws of this State.

In Testimony Whereof, I hereto set my hand and cause to be affixed the Great Seal of State. Done at the City of Springfield, this 16th day of September, in the year of our Lord one thousand eight hundred and ninety-three, and of the Independence of the United States the one hundred and eighteenth.

W. H. HINRICHSEN,
Secretary of State.

[SEAL]

TO HON. WILLIAM H. HINRICHSEN,

SECRETARY OF STATE:

SIR:

We, the undersigned citizens of the United States, propose to form a corporation under an act of the General Assembly of the State of Illinois, entitled "An Act Concerning Corporations," approved April 18, 1872, and all acts amendatory thereof; and that for the purposes of such organization we hereby state as follows, to-wit:

1. The name of such corporation is the "COLUMBIAN MUSEUM OF CHICAGO."

2. The object for which it is formed is for the accumulation and dissemination of knowledge, and the preservation and exhibition of objects illustrating Art, Archaeology, Science and History.

3. The management of the aforesaid museum shall be vested in a Board of FIFTEEN (15) TRUSTEES, five of whom are to be elected every year.

4. The following named persons are hereby selected as the Trustees for the first year of its corporate existence:

Edward E. Ayer, Charles B. Farwell, George E. Adams, George R. Davis, Charles L. Hutchinson, Daniel H. Burnham, John A. Roche, M. C. Bullock, Emil G. Hirsch, James W. Ellsworth, Allison V. Armour, O. F. Aldis, Edwin Walker, John C. Black and Frank W. Gunsaulus.

5. The location of the Museum is in the City of Chicago, County of Cook, and State of Illinois.

(Signed)

George E. Adams, C. B. Farwell, Sidney C. Eastman, F. W. Putnam, Robert McCurdy, Andrew Peterson, L. J. Gage, Charles L. Hutchinson, Ebenezer

Buckingham, Andrew McNally, Edward E. Ayer, John M. Clark, Herman H. Kohl Saat, George Schneider, Henry H. Getty, William R. Harper, Franklin H. Head, E. G. Keith, J. Irving Pearce, Azel F. Hatch, Henry Wade Rogers, Thomas B. Bryan, L. Z. Leiter, A. C. Bartlett, A. A. Sprague, A. C. McClurg, James W. Scott, Geo. F. Bissell, John R. Walsh, Chas. Fitzsimmons, John A. Roche, E. B. McCagg, Owen F. Aldis, Ferdinand W. Peck, James H. Dole, Joseph Stockton, Edward B. Butler, John McConnell, R. A. Waller, H. C. Chatfield-Taylor, A. Crawford, Wm. Sooy Smith, P. S. Peterson, John C. Black, Jno. J. Mitchell, C. F. Gunther, George R. Davis, Stephen A. Forbes, Robert W. Patterson, Jr., M. C. Bullock, Edwin Walker, George M. Pullman, William E. Curtis, James W. Ellsworth, William E. Hale, Wm. T. Baker, Martin A. Ryerson, Huntington W. Jackson, N. B. Ream, Norman Williams, Melville E. Stone, Bryan Lathrop, Eliphalet W. Blatchford, Philip D. Armour.

STATE OF ILLINOIS }
COOK COUNTY } ss.

I, G. R. MITCHELL, a NOTARY PUBLIC in and for said County, do hereby certify that the foregoing petitioners personally appeared before me and acknowledged severally that they signed the foregoing petition as their free and voluntary act for the uses and purposes therein set forth.

Given under my hand and notarial seal this 14th day of September, 1893.

G. R. MITCHELL,

[SEAL]

NOTARY PUBLIC, COOK COUNTY, ILL.

CHANGE IN ARTICLE 1

Pursuant to a resolution passed at a meeting of the corporate members held the 25th day of June, 1894, the name of the COLUMBIAN MUSEUM was changed to FIELD COLUMBIAN MUSEUM. A certificate to this effect was filed June 26, 1894, in the office of the Secretary of State for Illinois.

CHANGE IN ARTICLE 1

Pursuant to a resolution passed at a meeting of the corporate members held the 8th day of November, 1905, the name of the FIELD COLUMBIAN MUSEUM was changed to FIELD MUSEUM OF NATURAL HISTORY. A certificate to this effect was filed November 10, 1905, in the office of the Secretary of State for Illinois.

CHANGE IN ARTICLE 3

Pursuant to a resolution passed at a meeting of the corporate members held the 10th day of May, 1920, the management of FIELD MUSEUM OF NATURAL HISTORY shall be invested in a Board of TWENTY-ONE (21) TRUSTEES, who shall be elected in such manner and for such time and term of office as may be provided for by the By-Laws. A certificate to this effect was filed May 21, 1920, in the office of the Secretary of State for Illinois.

CHANGE IN ARTICLE 1

Pursuant to a resolution passed at a meeting of the corporate members held the 15th day of November, 1943, the name of FIELD MUSEUM OF NATURAL HISTORY was changed to CHICAGO NATURAL HISTORY MUSEUM. A certificate to this effect was filed November 23, 1943, in the office of the Secretary of State for Illinois.

Amended By-Laws

DECEMBER 1958

ARTICLE I

MEMBERS

SECTION 1. Members shall be of twelve classes, Corporate Members, Honorary Members, Patrons, Corresponding Members, Benefactors, Contributors, Life Members, Non-Resident Life Members, Associate Members, Non-Resident Associate Members, Sustaining Members, and Annual Members.

SECTION 2. The Corporate Members shall consist of the persons named in the articles of incorporation, and of such other persons as shall be chosen from time to time by the Board of Trustees at any of its meetings, upon the recommendation of the Executive Committee; provided, that such person named in the articles of incorporation shall, within ninety days from the adoption of these By-Laws, and persons hereafter chosen as Corporate Members shall, within ninety days of their election, pay into the treasury the sum of Twenty Dollars (\$20.00) or more. Corporate Members becoming Life Members, Patrons or Honorary Members shall be exempt from dues. Annual meetings of said Corporate Members shall be held at the same place and on the same day that the annual meeting of the Board of Trustees is held.

SECTION 3. Honorary Members shall be chosen by the Board from among persons who have rendered eminent service to science, and only upon unanimous nomination of the Executive Committee. They shall be exempt from all dues.

SECTION 4. Patrons shall be chosen by the Board upon recommendation of the Executive Committee from among persons who have rendered eminent service to the Museum. They shall be exempt from all dues, and, by virtue of their election as Patrons, shall also be Corporate Members.

SECTION 5. Any person contributing or devising the sum of One Hundred Thousand Dollars (\$100,000.00) in cash, or securities, or property to the funds of the Museum, may be elected a Benefactor of the Museum.

SECTION 6. Corresponding Members shall be chosen by the Board from among scientists or patrons of science residing in foreign countries, who render important service to the Museum. They shall be elected by the Board of Trustees at any of its meetings. They shall be exempt from all dues and shall enjoy all courtesies of the Museum.

SECTION 7. Any person contributing to the Museum One Thousand Dollars (\$1,000.00) or more in cash, securities, or material, may be elected a Contributor of the Museum. Contributors shall be exempt from all dues and shall enjoy all courtesies of the Museum.

SECTION 8. Any person paying into the treasury the sum of Five Hundred Dollars (\$500.00) at any one time, shall, upon the unanimous vote of the Board, become a Life Member. Life Members shall be exempt from all dues, and shall enjoy all the privileges and courtesies of the Museum that are accorded to members of the Board of Trustees. Any person residing fifty miles or more from the city of Chicago, paying into the treasury the sum of One Hundred Dollars (\$100.00) at any one time, shall, upon the unanimous vote of the Board, become a Non-Resident Life Member. Non-Resident Life Members shall be exempt from all dues, and shall enjoy all the privileges and courtesies of the Museum that are accorded to members of the Board of Trustees.

SECTION 9. Any person paying into the treasury of the Museum the sum of One Hundred Dollars (\$100.00) at any one time, shall, upon the vote of the Board,

become an Associate Member. Associate Members shall be exempt from all dues, and shall be entitled to tickets admitting Member and members of family, including non-resident home guests; all publications of the Museum issued during the period of their membership, if so desired; reserved seats for all lectures and entertainments under the auspices of the Museum, provided reservation is requested in advance; and admission of holder of membership and accompanying party to all special exhibits and Museum functions day or evening. Any person residing fifty miles or more from the city of Chicago, paying into the treasury the sum of Fifty Dollars (\$50.00) at any one time, shall, upon the unanimous vote of the Board, become a Non-Resident Associate Member. Non-Resident Associate Members shall be exempt from all dues, and shall enjoy all the privileges and courtesies of the Museum that are accorded to Associate Members.

SECTION 10. Sustaining Members shall consist of such persons as are selected from time to time by the Board of Trustees at any of its meetings, and who shall pay an annual fee of Twenty-five Dollars (\$25.00), payable within thirty days after notice of election and within thirty days after each recurring annual date. This Sustaining Membership entitles the Member to free admission for the Member and family to the Museum on any day, the Annual Report and such other Museum documents or publications issued during the period of their membership as may be requested in writing. When a Sustaining Member has paid the annual fee of \$25.00 for six years, such Member shall be entitled to become an Associate Member.

SECTION 11. Annual Members shall consist of such persons as are selected from time to time by the Board of Trustees at any of its meetings, and who shall pay an annual fee of Ten Dollars (\$10.00), payable within thirty days after each recurring annual date. An Annual Membership shall entitle the Member to a card of admission for the Member and family during all hours when the Museum is open to the public, and free admission for the Member and family to all Museum lectures and entertainments. This membership will also entitle the holder to the courtesies of the membership privileges of every museum of note in the United States and Canada, so long as the existing system of co-operative interchange of membership tickets shall be maintained, including tickets for any lectures given under the auspices of any of the museums during a visit to the cities in which the co-operative museums are located.

SECTION 12. All membership fees, excepting Sustaining and Annual, shall hereafter be applied to a permanent Membership Endowment Fund, the interest only of which shall be applied for the use of the Museum as the Board of Trustees may order.

ARTICLE II

BOARD OF TRUSTEES

SECTION 1. The Board of Trustees shall consist of twenty-one members. The respective members of the Board now in office, and those who shall hereafter be elected, shall hold office during life. Vacancies occurring in the Board shall be filled at a regular meeting of the Board, upon the nomination of the Executive Committee made at a preceding regular meeting of the Board, by a majority vote of the members of the Board present.

SECTION 2. Regular meetings of the Board shall be held on the third Monday of the month. Special meetings may be called at any time by the President, and shall be called by the Secretary upon the written request of three Trustees. Five Trustees shall constitute a quorum, except for the election of officers or the adoption of the Annual Budget, when seven Trustees shall be required, but meetings may be adjourned by any less number from day to day, or to a day fixed, previous to the next regular meeting.

SECTION 3. Reasonable written notice, designating the time and place of holding meetings, shall be given by the Secretary.

ARTICLE III

HONORARY TRUSTEES

SECTION 1. As a mark of respect, and in appreciation of services performed for the Institution, any Trustee who by reason of inability, on account of change

of residence, or for other cause or from indisposition to serve longer in such capacity shall resign his place upon the Board, may be elected, by a majority of those present at any regular meeting of the Board, an Honorary Trustee for life. Such Honorary Trustee will receive notice of all meetings of the Board of Trustees, whether regular or special, and will be expected to be present at all such meetings and participate in the deliberations thereof, but an Honorary Trustee shall not have the right to vote.

ARTICLE IV

OFFICERS

SECTION 1. The officers shall be a President, a First Vice-President, a Second Vice-President, a Third Vice-President, a Secretary, an Assistant Secretary and a Treasurer. They shall be chosen by ballot by the Board of Trustees, a majority of those present and voting being necessary to elect. The President, the First Vice-President, the Second Vice-President, and the Third Vice-President shall be chosen from among the members of the Board of Trustees. The meeting for the election of officers shall be held on the third Monday of January of each year, and shall be called the Annual Meeting.

SECTION 2. The officers shall hold office for one year, or until their successors are elected and qualified, but any officer may be removed at any regular meeting of the Board of Trustees by a vote of two-thirds of all the members of the Board. Vacancies in any office may be filled by the Board at any meeting.

SECTION 3. The officers shall perform such duties as ordinarily appertain to their respective offices, and such as shall be prescribed by the By-Laws, or designated from time to time by the Board of Trustees.

ARTICLE V

THE TREASURER

SECTION 1. The Treasurer shall be custodian of the funds of the Corporation, except as hereinafter provided. He shall make disbursements only upon warrants, signed by such officer, or officers, or other persons as the Board of Trustees may from time to time designate.

SECTION 2. The securities and muniments of title belonging to the Corporation shall be placed in the custody of some Trust Company of Chicago to be designated by the Board of Trustees, which Trust Company shall collect the income and principal of said securities as the same become due, and pay same to the Treasurer, except as hereinafter provided. Said Trust Company shall allow access to and deliver any or all securities or muniments of title to the joint order of the following officers, namely: the President or one of the Vice-Presidents, jointly with the Chairman, or one of the Vice-Chairmen, of the Finance Committee of the Museum. The President or any one of the Vice-Presidents, jointly with either the Chairman or any one of the other members of the Finance Committee, are authorized and empowered (a) to sell, assign and transfer as a whole or in part the securities owned by or registered in the name of the Chicago Natural History Museum, and, for that purpose, to endorse certificates in blank or to a named person, appoint one or more attorneys, and execute such other instruments as may be necessary, and (b) to cause any securities belonging to this Corporation now, or acquired in the future, to be held or registered in the name or names of a nominee or nominees designated by them.

SECTION 3. The Treasurer shall give bond in such amount, and with such sureties as shall be approved by the Board of Trustees.

SECTION 4. The Harris Trust and Savings Bank shall be custodian of "The N. W. Harris Public School Extension of the Chicago Natural History Museum" fund. The bank shall make disbursements only upon warrants signed by such officer or officers or other persons as the Board of Trustees of the Museum may from time to time designate.

ARTICLE VI

THE DIRECTOR

SECTION 1. The Board of Trustees shall elect a Director of the Museum, who shall remain in office until his successor shall be elected. He shall have immediate charge and supervision of the Museum, and shall control the operations of the Institution, subject to the authority of the Board of Trustees and its Committees. The Director shall be the official medium of communication between the Board, or its Committees, and the scientific staff and maintenance force.

SECTION 2. There shall be four scientific Departments of the Museum—Anthropology, Botany, Geology, and Zoology—each under the charge of a Chief Curator, subject to the authority of the Director. The Chief Curators shall be appointed by the Board upon the recommendation of the Director, and shall serve during the pleasure of the Board. Subordinate staff officers in the scientific Departments shall be appointed and removed by the Director upon the recommendation of the Chief Curators of the respective Departments. The Director shall have authority to employ and remove all other employees of the Museum.

SECTION 3. The Director shall make report to the Board at each regular meeting, recounting the operations of the Museum for the previous month. At the Annual Meeting, the Director shall make an Annual Report, reviewing the work for the previous year, which Annual Report shall be published in pamphlet form for the information of the Trustees and Members, and for free distribution in such number as the Board may direct.

ARTICLE VII

THE AUDITOR

SECTION 1. The Board shall appoint an Auditor, who shall hold his office during the pleasure of the Board. He shall keep proper books of account, setting forth the financial condition and transactions of the Corporation, and of the Museum, and report thereon at each regular meeting, and at such other times as may be required by the Board. He shall certify to the correctness of all bills rendered for the expenditure of the money of the Corporation.

ARTICLE VIII

COMMITTEES

SECTION 1. There shall be five Committees, as follows: Finance, Building, Auditing, Pension, and Executive.

SECTION 2. The Finance Committee shall consist of not less than five or more than seven members, the Auditing and Pension Committees shall each consist of three members, and the Building Committee shall consist of five members. All members of these four Committees shall be elected by ballot by the Board at the Annual Meeting, and shall hold office for one year, and until their successors are elected and qualified. In electing the members of these Committees, the Board shall designate the Chairman and Vice-Chairman by the order in which the members are named in the respective Committee; the first member named shall be Chairman, the second named the Vice-Chairman, and the third named, Second Vice-Chairman, succession to the Chairmanship being in this order in the event of the absence or disability of the Chairman.

SECTION 3. The Executive Committee shall consist of the President of the Board, the Chairman of the Finance Committee, the Chairman of the Building Committee, the Chairman of the Auditing Committee, the Chairman of the Pension Committee, and three other members of the Board to be elected by ballot at the Annual Meeting.

SECTION 4. Four members shall constitute a quorum of the Executive Committee, and in all standing Committees two members shall constitute a quorum. In the event that, owing to the absence or inability of members, a quorum of the regularly elected members cannot be present at any meeting of any Committee, then the Chairman thereof, or his successor, as herein provided, may summon any members of the Board of Trustees to act in place of the absentee.

SECTION 5. The Finance Committee shall have supervision of investing the endowment and other funds of the Corporation, and the care of such real estate as may become its property. It shall have authority to make and alter investments from time to time, reporting its actions to the Board of Trustees. The Finance Committee is fully authorized to cause any funds or investments of the Corporation to be made payable to bearer, and it is further authorized to cause real estate of the Corporation, its funds and investments, to be held or registered in the name of a nominee selected by it.

SECTION 6. The Building Committee shall have supervision of the construction, reconstruction, and extension of any and all buildings used for Museum purposes.

SECTION 7. The Executive Committee shall be called together from time to time as the Chairman may consider necessary, or as he may be requested to do by three members of the Committee, to act upon such matters affecting the administration of the Museum as cannot await consideration at the Regular Monthly Meetings of the Board of Trustees. It shall, before the beginning of each fiscal year, prepare and submit to the Board an itemized Budget, setting forth the probable receipts from all sources for the ensuing year, and make recommendations as to the expenditures which should be made for routine maintenance and fixed charges. Upon the adoption of the Budget by the Board, the expenditures stated are authorized.

SECTION 8. The Auditing Committee shall have supervision over all accounting and bookkeeping, and full control of the financial records. It shall cause the same, once each year, or oftener, to be examined by an expert individual or firm, and shall transmit the report of such expert individual or firm to the Board at the next ensuing regular meeting after such examination shall have taken place.

SECTION 9. The Pension Committee shall determine by such means and processes as shall be established by the Board of Trustees to whom and in what amount the Pension Fund shall be distributed. These determinations or findings shall be subject to the approval of the Board of Trustees.

SECTION 10. The Chairman of each Committee shall report the acts and proceedings thereof at the next ensuing regular meeting of the Board.

SECTION 11. The President shall be ex-officio a member of all Committees and Chairman of the Executive Committee. Vacancies occurring in any Committee may be filled by ballot at any regular meeting of the Board.

ARTICLE IX

NOMINATING COMMITTEE

SECTION 1. At the November meeting of the Board each year, a Nominating Committee of three shall be chosen by lot. Said Committee shall make nominations for membership of the Finance Committee, the Building Committee, the Auditing Committee, and the Pension Committee, and for three members of the Executive Committee, from among the Trustees, to be submitted at the ensuing December meeting and voted upon at the following Annual Meeting in January.

ARTICLE X

SECTION 1. Whenever the word "Museum" is employed in the By-Laws of the Corporation, it shall be taken to mean the building in which the Museum as an Institution is located and operated, the material exhibited, the material in study collections, or in storage, furniture, fixtures, cases, tools, records, books, and all appurtenances of the Institution and the workings, researches, installations, expenditures, field work, laboratories, library, publications, lecture courses, and all scientific and maintenance activities.

SECTION 2. The By-Laws, and likewise the Articles of Incorporation, may be amended at any regular meeting of the Board of Trustees by a vote in favor thereof of not less than two-thirds of all the members present, provided the amendment shall have been proposed at a preceding regular meeting.

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